UNION HYDRAULICS

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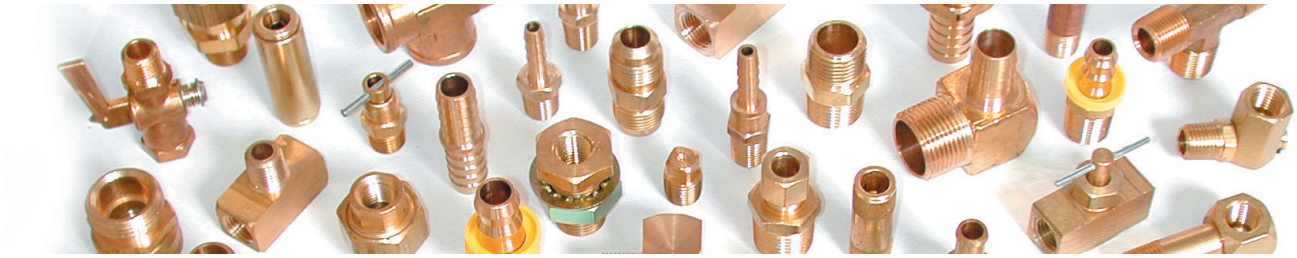

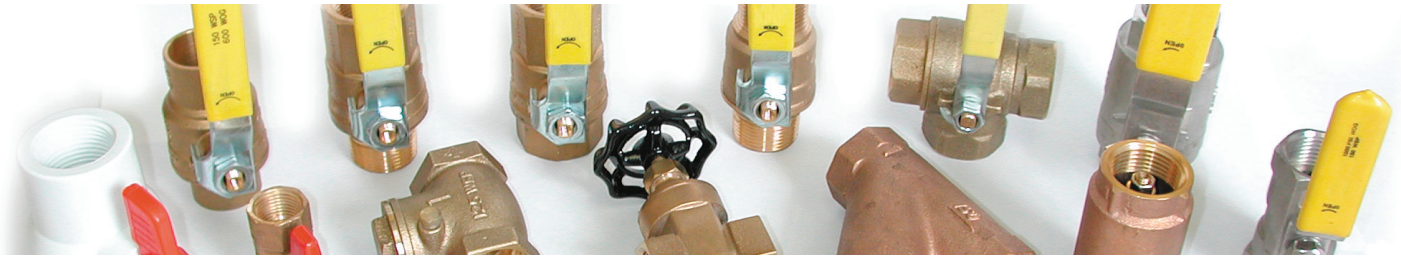

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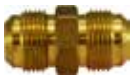
FL X SWT PG 61	**SPACE HEATER PG 61**	SPACE NUT PG 62	HEATER MALE PG 62	SPACE FE- MALE 62PG 21	HEATER UNION  PG 62	**GAS RANGE PG 62**	GAS MALE PG 62	RANGE FE- MALE PG 62
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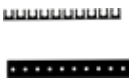
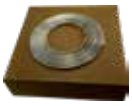
BLUE POLY PG 440	RED POLY PG 441	NYLON 12 PG 442	PVC PG 442	MINITUBING CUT PG 442	TUBING CUT-TER PG 442	PLASTIC TUBE CUT PG 442	MOUNTING RACK  PG 443	ALUMINUM  PG 443
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QCK RELEASE VALVE PG 483	R12 RELAY VALVE PG 484	R14 RELAY VALVE PG 484	3 WAY SOLE-NOID PG 484	UNI SOLENOID PG 484	AIR SOLENOID PG 485	7 WAY CABLE PG 485	6 WAY ELEC CABLE PG 486	4 WAY ELEC CABLE PG 486
DUEL POLE PG 486	SINGLE POLE PG 486	PLUG PG 487	PLUG PG 487	SOCKET PG 487	7W DBLE GRIP PG 487	ADAPTER PG 487	RV 7WAY PLUG PG 487	RV 7WAY SOCK PG 488
4WAY PLUG PG 488	GROUND KIT PG 488	PROTECTOR BOOT PG 488	CIRCUIT BREAKER PG 489	NOSE BOX-DEEP PG 490	BATT GRND STRAP PG 490	SS BATTERY NUT PG 490	DEER WHISTLE PG 492	CONSP TAPE PG 492
TARP STRAP PG 492	DOT TUBING PG 494	FUEL LINE PG 494	AIR BRAKE HOSE PG 494	**HYDRAULIC ADAPTERS** PG 495-539	**TECHNICAL INFORMATION** PG 496-503	**PIPE SWIVELS** PG 504-505	M. SWL ADAPTER PG 504	FE. SWL ADAPTER PG 504

HYDRAULICS
PICTORIAL INDEX

M. ELB PG 504	FE. UNION PG 505	M. 45° ELBOW PG 505	FE. 45° UNION PG505	M. SWL TEE 505	FE. SWL TEE PG 505	FE. SWL TEE PG 505	**JIC 37 FLARE** PG 506-512	JIC CAP PG 506
JIC TUBE PG 507	JIC M. CONN PG 507	JIC FE. CONN PG 508	JIC RED/EXP PG 508	PLUG PG 508	JIC UNION ELB. PG 509	JIC M. ELBOW PG 509	JIC M. ELBOW PG 509	MALE 45° PG 510
M. BRANCH TEE PG 510	JIC FE. TEE PG 510	JIC UNION TEE PG 510	JIC BULK UNION PG 511	BULK UNION ELB 511	45° UNION ELB PG 511	BULK BRANCH T PG 511	BULK RUN TEE PG 511	JIC TO FEMALE PG 511
JIC TO MALE PG 512	**PIPE FITTINGS** PG 512-516	PIPE COU-PLING PG 512	HEX PIPE NIPPLE PG 512	EXP/ PIPE ADAP PG 513	HEX RED/ BUSH PG 513	HEX HEAD PLUG PG 513	HOLLOW HEX PLG PG 513	FLUSH HLW PLUG PG 513
SQR HEAD PLUG PG 514	PIPE CAP PG 514	MALE ELBOW PG 515	45° M. ELBOW PG 515	90° ST ELBOW PG 515	45° ST ELBOW PG 515	FE. ELBOW PG 515	45° FE. ELBOW PG 516	MALE PIPE TEE PG 516
FE. PIPE TEE PG 516	ST PIPE TEE PG 516	FE. RUN PIPE T PG 516	MALE PIPE TEE PG 516	FE. PIPE TEE PG 516	**O-RING ADAPTERS** PG 517-519	JIC TO O-RING PG 517	O-RING TO PIPE PG 517	O-RING TO 37° PG 518
FE. O-RING PG 518	O-RING TO FE. PG 518	O-RING PLUG PG 518	O-RING HLW PLG PG 519	O-RING PORT PG 519	**FEMALE SWIVELS** PG 519-521	JIC SWL ELBOW PG 519	JIC SWL 45° PG 519	JIC SWL TO F 90° PG 520
JIC SWL CONN PG 520	JIC SWL TO M PG 520	JIC SWL TOF ADP PG 520	JIC SWL BRANCHT PG 520	JIC SWL RUN T PG 521	**SAE O-RING ADAPTERS** PG 521-523	JIC TO ORING 90° PG 521	JIC TO ORING 45° PG 521	JIC BRANCH TEE PG 520

HYDRAULICS
PICTORIAL INDEX

JIC RUN TEE PG 521	ORING TO F 90° PG 522	ORING TO M 90° PG 522	ORING JIC 90° PG 522	F TO M ORING 90° PG 522	M ORING SWL AD PG 523	90° ORING SWL PG 523	45° ORING SWL PG 523	VITON O-RING PG 523
NITRILE O-RING PG 523	**O-RING FACE SEAL PGS 523-527**	BRAZE TUBE NUT PG 523	BRAZETUBE SLV PG 524	CAP PG 524	BULKHEAD LKNUT PG 524	FACE SEAL ADPT PG 525	PLUG 525	ORFS UNION 90° PG 525
ORFS TO M 90° PG 525	ORFS TO PIPE 90° PG 525	ORFS UNION T PG 526	M ORFS TO ORB PG 525	M TO F 37° SWL PG 526	SWL NUT ELBOW PG 526	37° SWIVEL PG 526	O-RING ELBOW PG 526	ORFS TO 45° PG 527
SWIVEL ELBOW PG 527	**BSPT, BSPP METRIC PGS 527-530**	JIC BSPT PG 527	BSPT ELBOW PG 527	HEX NIPPLE PG 527	PLUG PG 527	HEX NIPPLE BSPP PG 527	COUPLING PG 527	FEMALE SWIVEL PG 528
ELBOW PG 528	45° ELBOW PG 528	MALE NIPPLE PG 528	MALE BSPP PG 528	SWIVEL BSPP PG 529	PLUG BSPP PG 529	HOLLOW BSPP PG 529	FEMALE BSPP PG 530	MALE ELBOW PG 530
STRAIGHT SWIVEL PG 530	METRIC PARALLEL PG 530	HOLLOW PG 530	FEMALE ADAPTER PG 530	**QUICK DISCONNECTS PGS 531-534**	NO SPILL PG 531	DRYBREAK PG 531	ISO-A COUPLER PG 531	ISO-A PLUG PG 531
ISO-B COUPLER PG 531	ISO-B PLUG PG 532	FLUSH FACE PG 532	FLUSH FACE PG 532	LSQ SERIES PG 532	LSQ SERIES PG 533	AG SERIES PG 533	KZE SERIES PG 534	**VALVES, FLANGES PGS 534-539**
FLOW VALVE PG 534	NEEDLE VALVE PG 535	PRESSURE VALVE PG 535	JIC FLANGE PG 537	JIC FLANGE PG 537	JIC FLANGE PG 537	FLANGE KIT PG 538	FLANGE KIT PG 538	SPLIT FLANGE PG 538

STAINLESS STEEL
PICTORIAL INDEX

FLANGE PLUG PG 538	FLANGE HALF PG 539	FLANGE PAD PG 539	FLANGE HALF PG 539	STAINLESS STEEL PG 543-555	PIPE SWIVEL PG 543	PIPE SWIVEL PG 543	TUBE SLEEVE PG 544	TUBE NUT PG 544
CAP PG 544	MALE PG 545	UNION PG 546	FEMALE PG 546	PLUG PG 546	MJIC X FJIC PG 547	BULKHEAD PG 547	FEMALE BULK- PG 547	BULKHEAD PG 547
BULKHEAD COUPLING PG 548	PIPE NIPPLE PG 548	HEX PIPE NIPPLE PG 548	COUPLING PG 549	ADAPTER PG 549	PLUG PG 549	PLUG PG 549	BUSHING PG 550	STREET ELBOW PG 550
MALE ELBOW PG 551	ALL MALE TEE PG 551	ELBOW PG 551	TEE PG 552	MORB X FIP PG 552	MJIC X MORB PG 553	PLUG PG 553	PLUG PG 554	FIP X FJIC SWIVEL PG 554
MIP X FJIC SWIVEL PG 555	MALE API PG 555	JIC 90 SWIVEL PG 555	MALE CRIMP PG 555	FEMALE CRIMP PG 555				

PIPE FITTINGS

Pipe Size	1/16	1/8	1/4	3/8	1/2	3/4	1
Thread Size	1/16-27	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1-11$^{1/2}$
Working Pressure	1200	1200	1200	1200	1200	1000	1000
Thread OD	1/4	3/8	1/2	5/8	3/4	1	1-1/4

Typical Application: Grease, fuels, LP and Natural gas (available on special order), refrigeration, instrumentation and hydraulic systems.

Pressure: Operating pressure up to 1200 PSI.
Vibration: Fair resistance.
Temperature Range:
-65^{0}F to +250^{0}F (-53^{0}C to +121^{0}C).

Used With: Brass, bronze, copper, steel, aluminum and iron pipe.

Tolerance : +/- .02 on all dimensions. Dimension Data can change without notice. Please call us when dimensions are critical.

Conformance: Meets specifications and standards of ASA, ASME and SAE

- Not lead free
- **"L" at the end of a Part# means Light Pattern**

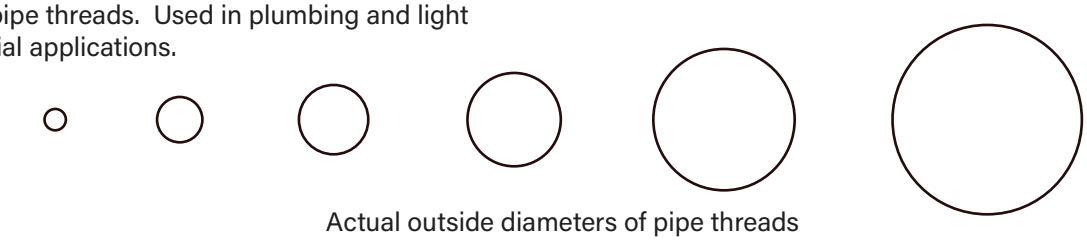
- these fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

- **Assembly Instructions**

1 - Tighten approximately 2-1/2 turns past hand tight.
2 - Fittings with Everseal tighten two turns past hand tight. Brittle materials require special cautions.

- see page 547-550 for stainless steel
- see page 313 for steel fittings
- see page 295-297 for plastic pipe fittings.

- Lead Free Fittings
see pages 157-160
- For Bronze & Larger Sizes
see pages 248-268



Actual outside diameters of pipe threads

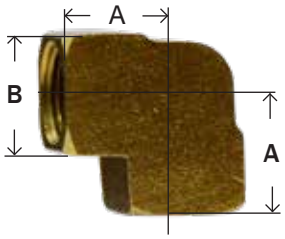
Actual Male Thread Profiles

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PIPE
BRASS FITTINGS

90° FEMALE ELBOW

SAE# 130238

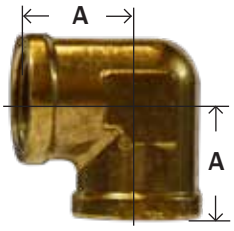


100

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	
28001	1/8″	0.55	0.56	0.09	----
28002	1/4″	0.78	0.68	0.13	----
28003	3/8″	0.84	0.81	0.16	----
28004	1/2″	1.09	1.00	0.34	----
28005	3/4″	1.16	1.25	0.60	----
28015B	3/8" x 1/4"	0.84	0.81	0.18	----
28053B	1/2" x 1/4"	1.09	1.00	0.37	----
28016B	1/2" x 3/8"	1.09	1.00	0.36	----

100 2200P 3500 302 200

90° FORGED FEMALE ELBOW

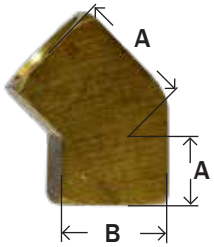


100F

PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.	
28009	1/8″	0.57	0.50	0.04	----
28010	1/4″	0.70	0.68	0.10	----
28011	3/8″	0.81	0.81	0.12	----
28012	1/2″	1.00	1.00	0.23	----
28013	3/4″	1.13	1.25	0.42	----
28014	1/4″ x 1/8″	0.72	0.65	0.12	----
28015	3/8″ x 1/4″	0.81	0.81	0.15	----
28016	1/2″ x 3/8″	1.00	1.00	0.28	----
28017	1"	1.42	1.50	0.75	----

1200P E7 100AF 100B

45° FEMALE ELBOW



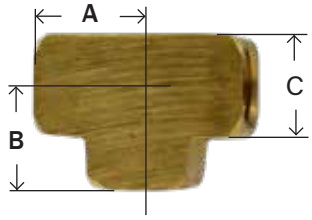
10045

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	
28018	1/8″	0.45	0.56	0.06	----
28019	1/4″	0.66	0.68	0.12	----
28020	3/8"	0.69	0.81	0.16	----
28021B	1/2"	0.94	1.00	0.25	----

129 2201P 205 23355 45EZ 105 100-45A

UNION TEE

SAE# 130438

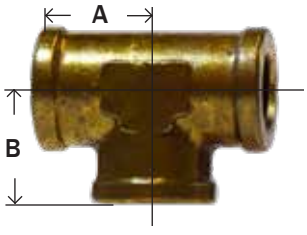


101

PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.	
28022	1/16"	0.55	0.55	0.58	0.11	----
28024	1/8″	0.55	0.55	0.56	0.08	----
28025	1/4″	0.78	0.78	0.68	0.17	----
28026	3/8″	0.84	0.84	0.81	0.22	----
28027	1/2″	1.09	1.09	1.00	0.43	----
28028	3/4″	1.16	1.16	1.25	0.64	----

311 101A 322 2203P 3700 203

UNION FORGED TEE



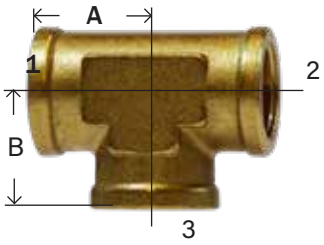
101F

PART #	THREAD SIZE NPTF	A & B	BODY WIDTH	APPROX. WT. LBS.	
28032	1/8″	0.56	0.50	0.06	----
28033	1/4″	0.71	0.68	0.13	----
28034	3/8″	0.81	0.81	0.16	----
28035	1/2″	1.00	1.00	0.27	----
28036	3/4″	1.16	1.25	0.53	----
28023	1″	1.42	1.50	.924	----

1203P LT7 101AF 101B

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

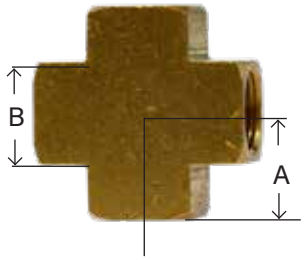
REDUCING FORGED TEES



101FR

PART #	1 NPT	2 NPT	3 NPT	A & B	BODY WIDTH	APPROX. WT. LBS.	
28029	1/8"	1/8"	1/4"	0.72	0.69	0.16	----
28030	1/4"	1/4"	1/8"	0.72	0.69	0.14	----
28031	1/4"	1/4"	3/8"	0.81	0.81	0.21	----
28038	3/8"	1/4"	3/8"	0.81	0.81	0.18	----
28039	3/8"	3/8"	1/4"	0.81	0.81	0.18	----
28046	1/2"	1/2"	3/8"	1.00	1.00	0.30	----
28047	3/4"	1/2"	3/4"	1.20	1.25	0.59	----
28048	3/4"	3/4"	1/2"	1.16	1.25	0.59	----

CROSS

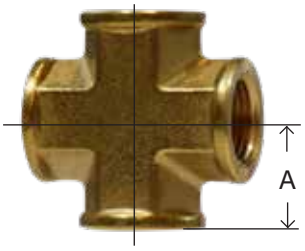


102

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	
28041	1/8"	0.55	0.56	0.10	----
28042	1/4"	0.78	0.68	0.21	----
28043	3/8"	0.84	0.81	0.25	----
28044	1/2"	1.09	1.00	0.51	----
28045	3/4"	1.16	1.25	0.75	----

2205P 3950 228 102A 102BE

FORGED CROSS



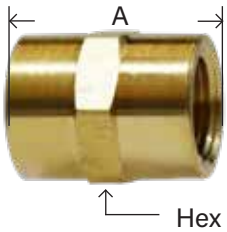
102F

PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.	
28049	1/8"	0.56	0.50	0.06	----
28050	1/4"	0.72	0.69	0.15	----
28051	3/8"	0.81	0.81	0.18	----
28052	1/2"	1.00	1.00	0.34	----

C7 105 102AF 102B

COUPLING

SAE# 130138



103

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	
28057	1/16"	0.75	0.44	0.02	
28058L	1/8"	0.75	0.50	0.02	----
28058	1/8"	0.75	0.56	0.03	----
28059L	1/4"	0.88	0.63	0.03	----
28059	1/4"	1.12	0.75	0.09	----
28060L	3/8"	1.00	0.81	0.06	----
28060	3/8"	1.12	0.87	0.10	----
28061L	1/2"	1.19	0.93	0.09	----
28061	1/2"	1.50	1.06	0.19	----
28062L	3/4"	1.19	1.25	0.18	----
28062	3/4"	1.53	1.25	0.24	----
28063	1"	1.89	1.50	.357	----

207P 371 3300 103AH 103B

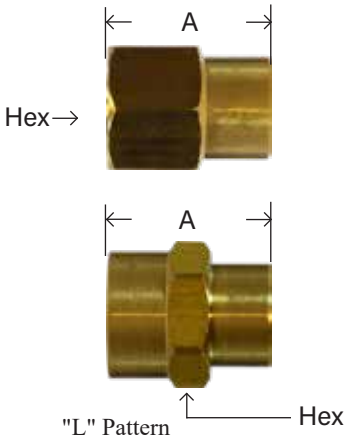
DIMENSION DATA CAN CHANGE WITHOUT NOTICE. PLEASE CHECK WHEN DIMENSIONS ARE CRITICAL.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PIPE
BRASS FITTINGS

REDUCING COUPLING

SAE# 130138



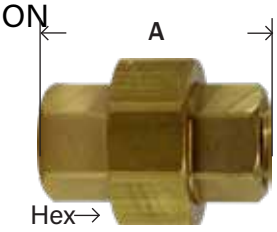
119

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	
28181L	1/4" x 1/8"	0.94	0.62	0.04	----
28181	1/4" x 1/8"	0.97	0.75	0.08	----
28182	3/8" x 1/8"	0.94	0.87	0.10	----
28183L	3/8" x 1/4"	1.00	0.81	0.06	----
28183	3/8" x 1/4"	1.16	0.87	0.12	----
28180*	1/2" x 1/8"	1.19	0.93	0.15	----
28184L	1/2" x 1/4"	1.11	1.00	0.10	----
28184	1/2" x 1/4"	1.28	1.06	0.20	----
28185L	1/2" x 3/8"	1.19	0.93	0.10	----
28185	1/2" x 3/8"	1.38	1.06	0.20	----
28187	3/4" x 1/4"	1.19	1.19	0.17	----
28188*	3/4" x 3/8"	1.32	1.37	0.20	----
28189*	3/4" x 1/2"	1.19	1.18	0.14	----
28178	1" x 1/2"	1.50	1.56	0.41	----
28179	1" x 3/4"	1.56	1.56	0.39	----

*Not to SAE specs

377 3300 208P 108 119B 119AH

UNION

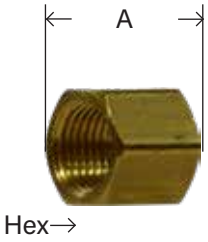


104

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	
28067	1/8"	1.25	0.94	0.13	----
28068	1/4"	1.31	1.06	0.18	----
28069	3/8"	1.75	1.25	0.33	----
28070	1/2"	1.79	1.56	0.50	----
28071	3/4"	1.96	1.68	0.47	----

3250 212P 104A 104B

CAP



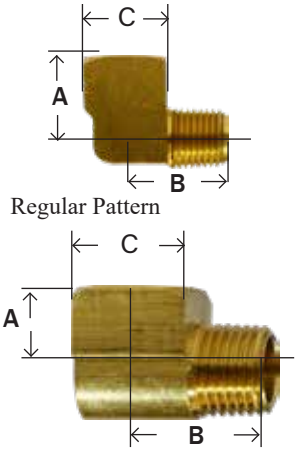
108

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	
28075	1/8"	0.47	0.56	0.03	----
28076	1/4"	0.60	0.68	0.04	----
28077	3/8"	0.69	0.81	0.06	----
28078	1/2"	0.78	0.93	0.08	----
28079	3/4"	0.94	1.25	0.16	----
28080	1"	1.13	1.50	0.23	----

3129 213P 23129 108A 108B

90˚ STREET ELBOW

SAE# 130239



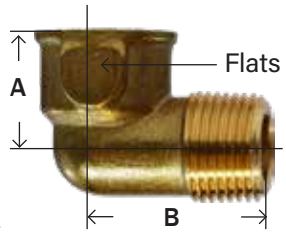
116

PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.	
28161	1/16"	0.69	0.60	0.47	0.04	----
28156	1/8"	0.48	0.66	0.56	0.05	----
28156S	1/8" short	0.34	0.57	0.50	0.03	----
28157	1/4"	0.72	0.91	0.735	0.09	----
28157S	1/4" short	0.45	0.78	0.68	0.07	----
28158	3/8"	0.78	0.97	0.81	0.16	----
28159	1/2"	1.03	1.25	1.00	0.33	----
28160	3/4"	1.12	1.38	1.25	0.52	----

2202P 304 115 202 3400 116A

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FORGED 90° STREET ELBOW

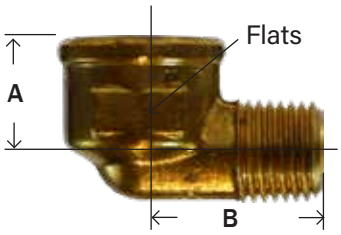


116F

PART #	THREAD SIZE NPTF	A	B	WRENCH FLATS	APPROX. WT. LBS.	
28165	1/8″	0.61	0.85	0.62	0.06	----
28166	1/4″	0.50	0.86	0.72	0.08	----
28167	3/8″	0.70	1.00	0.88	0.10	----
28168	1/2″	0.96	1.43	1.00	0.20	----
28169	3/4″	0.90	1.40	1.25	0.25	----

5E8 1202P 116AF 116B

FORGED REDUCING 90° STREET ELBOW



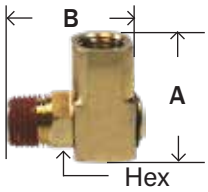
128

*Barstock

PART #	THREAD SIZE NPTF FXM	A	B	WRENCH FLATS	APPROX. WT. LBS.	
28259*	1/8" x 1/16"					----
28260	1/8″ x 1/4″	0.50	0.87	0.71	0.08	----
28261B*	1/4″ x 1/8″	0.53	0.72	0.69	0.07	----
28261	1/4″ x 1/8″	0.50	0.81	0.72	0.06	----
28262	1/4″ x 3/8″	0.93	1.06	0.59	0.12	----
28263	3/8″ x 1/4″	0.58	0.94	0.81	0.07	----
28264	3/8″ x 1/2″	0.97	1.36	1.00	0.28	----
28265	1/2″ x 3/8″	0.96	1.37	1.00	0.22	----
28265B*	1/2" x 3/8"	1.03	1.11	1.00	0.24	----

PIPE SWIVEL 90° STREET ELBOW

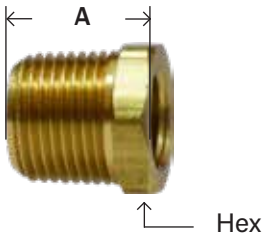
▪ Burst Pressure 1,200 PSI ▪ Working Pressure 300 PSI



PART #	MIP XFIP THREAD SIZE NPTF	A	B	HEX	APPROX. WT. LBS.	
28430	1/4″	1.18	1.25	.625	0.22	----

HEX BUSHING

SAE# 130140



110

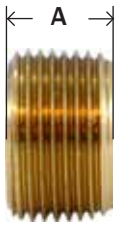
PART #	THREAD SIZE NPTF MXF	A	HEX	APPROX. WT. LBS.	
28101	1/8" x 1/16"				
28102L	1/4″ x 1/8″	0.62	0.56	0.02	----
28102	1/4″ x 1/8″	0.75	0.56	0.04	----
28103	3/8″ x 1/8″	0.75	0.68	0.05	----
28104L	3/8″ x 1/4″	0.69	0.68	0.03	----
28104	3/8″ x 1/4″	0.75	0.75	0.05	----
28105L	1/2″ x 1/8″	0.81	0.81	0.08	----
28105	1/2″ x 1/8″	1.00	0.87	0.10	----
28106L	1/2″ x 1/4″	0.81	0.81	0.08	----
28106	1/2″ x 1/4″	1.00	0.87	0.11	----
28107L	1/2″ x 3/8″	0.81	0.81	0.05	----
28107	1/2″ x 3/8″	1.00	0.87	0.10	----
28108	3/4″ x 1/8″	0.94	1.06	0.20	----
28109L	3/4″ x 1/4″	0.94	1.06	0.18	----
28110L	3/4″ x 3/8″	0.94	1.06	0.15	----
28111L	3/4″ x 1/2″	0.94	1.06	0.11	----
28111	3/4″ x 1/2″	1.00	1.12	0.14	----
28091	1" x 1/8"	1.15	1.37	0.29	----
28112	1″ x 1/4″	1.15	1.37	0.32	----
28113	1″ x 3/8″	1.12	1.37	0.30	----
28114	1″ x 1/2″	1.31	1.44	0.29	----
28115	1″ x 3/4″	1.31	1.37	0.20	----

373 3220 209P 110A 110B

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PIPE
BRASS FITTINGS

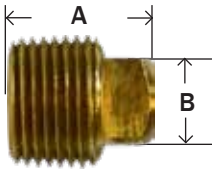
FACE BUSHING



110F

PART #	THREAD SIZE NPTF MXF	A	APPROX. WT. LBS.	
28121	1/4" x 1/8"	0.45	0.01	----
28122	3/8" x 1/8"	0.50	0.03	----
28116	3/8" x 1/4"	0.50	0.02	----
28090	1/2" x 1/8"	0.56	0.06	----
28128	1/2" x 1/4"	0.56	0.05	----
28117	1/2" x 3/8"	0.56	0.03	----
28129	3/4" x 1/4"	0.62	0.11	----
28130	3/4" x 3/8"	0.62	0.08	----
28118	3/4" x 1/2"	0.64	0.03	----
28120	1" x 1/2"	0.75	0.11	----
28119	1" x 3/4"	0.77	0.10	----

SQUARE HEAD PLUG
1/8 - 1/2 Solid



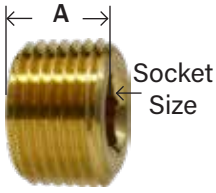
109

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	
28084	1/8"	0.58	0.27	0.02	----
28085	1/4"	0.80	0.37	0.03	----
28086	3/8"	0.80	0.43	0.06	----
28087	1/2"	1.07	0.55	0.13	----
28088**	3/4"	1.09	0.61	0.20	----
28089**	1"	1.24	0.81	0.35	----

** Cored

3151 211P 109A 109B

COUNTERSUNK HEX PLUG
3/4" taper thread



109AL

PART #	THREAD SIZE NPTF	A	SOCKET SIZE	APPROX. WT. LBS.	
28092	1/16"	0.30	0.12	0.01	----
28093	1/8"	0.30	0.18	0.01	----
28094	1/4"	0.45	0.26	0.02	----
28095	3/8"	0.45	0.31	0.03	----
28096	1/2"	0.61	0.39	0.05	----

3153 219P 109CS 118

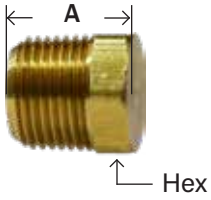
SLOTTED-HEAD PLUG

117

PART #	THREAD SIZE NPTF	A	APPROX. WT. LBS.	
28174	1/8"	0.31	0.01	----
28175	1/4"	0.42	0.02	----
28176	3/8"	0.45	0.05	----

220P 3150 117A 117B

CORED HEX PLUGS



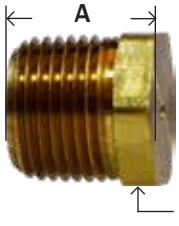
121

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	
28200	1/16"	0.48	0.38	0.01	----
28201	1/8"	0.55	0.43	0.01	----
28202	1/4"	0.62	0.56	0.02	----
28203	3/8"	0.72	0.68	0.06	----
28204	1/2"	0.81	0.87	0.09	----
28205	3/4"	0.94	1.06	0.16	----

218P 3152 121A 103 121B PPH 218P

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SOLID HEX HEAD PLUGS



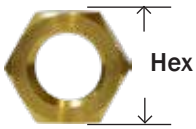
121S

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	
28201S	1/8′	0.55	0.43	0.02	----
28202S	1/4″	0.75	0.56	0.05	----
28203S	3/8″	0.66	0.68	0.07	----
28204S	1/2″	0.81	0.87	0.12	----
28205S	3/4″	0.92	1.06	0.24	----

121AS

LOCKNUT

- Jam Nuts
- Straight pipe thread

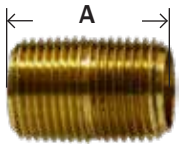


111

PART #	THREAD SIZE NPSL	HEX	THICKNESS	APPROX. WT. LBS.	
28123	1/8″	0.68	0.19	0.02	----
28124	1/4″	0.87	0.25	0.04	----
28125	3/8″	1.00	0.31	0.04	----
28126	1/2″	1.125	0.25	0.04	----
28127	3/4"	1.38	0.38	0.09	----

210P 21102 111A 111B

CLOSE NIPPLE

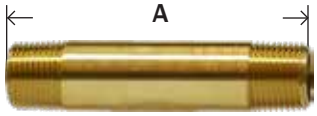


112

PART #	THREAD SIZE NPTF	A	APPROX. WT. LBS.	
28131	1/8″	0.75	0.01	----
28132	1/4″	0.88	0.02	----
28133	3/8″	1.00	0.05	----
28134	1/2″	1.12	0.06	----
28135	3/4″	1.31	0.11	----

165 215PN 3326 112A 112B

LONG NIPPLE



113

- NOTE: For longer lengths and larger diameters, see our red brass nipples section.

PART #	THREAD SIZE NPTF	A LENGTH	APPROX. WT. LBS.	
28140	1/8″	1.50	0.03	----
28141	1/8″	2.00	0.04	----
28142	1/8″	2.50	0.06	----
28143	1/8″	3.00	0.06	----
28475	1/8"	3.50	0.07	----
28144	1/4″	1.50	0.03	----
28145	1/4″	2.00	0.05	----
28146	1/4″	2.50	0.08	----
28147	1/4″	3.00	0.10	----
28481	1/4"	3.50	0.12	----
28148	3/8″	1.50	0.06	----
28149	3/8″	2.00	0.10	----
28150	3/8″	2.50	0.10	----
28151	3/8″	3.00	0.13	----
28487	3/8"	3.50	0.17	----
28152	1/2″	1.50	0.08	----
28153	1/2″	2.00	0.12	----
28154	1/2″	2.50	0.16	----
28155	1/2″	3.00	0.20	----
28493	1/2"	3.50	0.24	----
28136	3/4"	1.50	0.12	----
28497	3/4"	2.00	0.18	----
28498	3/4"	2.50	0.23	----
28499	3/4"	3.00	0.28	----

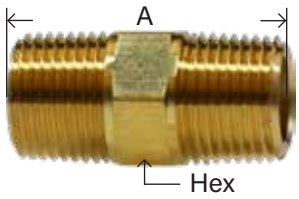
113B 113A 166 3327, 3328, 3329, 3330 3331 215PNL

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PIPE
BRASS FITTINGS

HEX NIPPLE

SAE# 130137



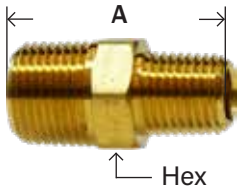
122

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	
28210	1/16"	0.97	0.38	0.02	----
28211L	1/8″	0.91	0.43	0.02	----
28211	1/8″	0.97	0.43	0.03	----
28212L	1/4″	1.12	0.56	0.04	----
28212	1/4″	1.38	0.56	0.06	----
28213L	3/8″	1.25	0.68	0.07	----
28213	3/8″	1.41	0.68	0.07	----
28214L	1/2″	1.50	0.87	0.11	----
28214	1/2″	1.81	0.87	0.17	----
28215L	3/4"	1.55	1.07	0.17	----
28215	3/4″	1.96	1.13	0.23	----
28216L	1"	1.75	1.39	0.22	----

216P 3325 379 122AH 122B

REDUCING HEX NIPPLE

SAE# 130137



123

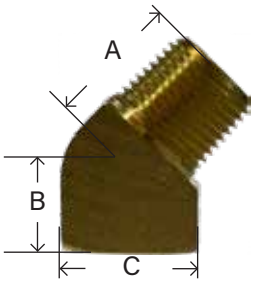
PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	
28218	1/8" x 1/16"	1.00	0.56	0.05	----
28220L	1/4″ x 1/8″	1.00	0.56	0.04	----
28220	1/4″ x 1/8″	1.19	0.56	0.04	----
28221L	3/8″ x 1/8″	1.11	0.68	0.06	----
28221	3/8″ x 1/8″	1.22	0.68	0.07	----
28222L	3/8″ x 1/4″	1.19	0.68	0.06	----
28222	3/8″ x 1/4″	1.41	0.68	0.07	----
28223L	1/2″ x 1/4″	1.34	0.87	0.09	----
28223	1/2″ x 1/4″	1.62	0.87	0.12	----
28224L	1/2″ x 3/8″	1.41	0.87	0.11	----
28224	1/2″ x 3/8″	1.62	0.87	0.12	----
28225L	3/4" x 1/2"	1.81	1.06	0.19	----
28225	3/4″ x 1/2″	1.50	1.06	0.15	----
28227	1" x 3/4"	2.31	1.38	0.38	----

216P 3325 379 122AH 122B

45° STREET ELBOW

SAE# 130339

124

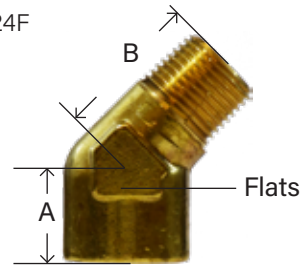


PART #	THREAD SIZE NPTF	B	A	C	APPROX. WT. LBS.	
28230	1/8″	0.38	0.50	0.56	0.03	----
28231	1/4″	0.56	0.72	0.68	0.09	----
28232	3/8″	0.56	0.78	0.81	0.12	----
28233	1/2″	0.75	1.00	1.00	0.20	----
28234	3/4″	0.75	1.06	1.25	0.34	----

306 3350 2214P 224

45⁰ FORGED STREET ELBOW

124F



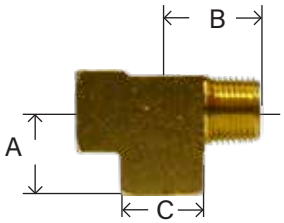
PART #	THREAD SIZE NPTF	A	B	WRENCH FLATS	APPROX. WT. LBS.	
28238	1/8″	0.63	0.81	0.56	0.05	----
28239	1/4″	0.63	1.06	0.81	0.11	----
28240	3/8″	0.72	1.06	0.93	0.17	----

45E8 124B

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STREET TEE/ SERVICE TEE/ MALE RUN TEE

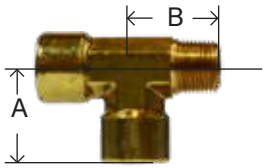
SAE# 130424



127

PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.	
28245	1/8″	0.55	0.66	0.56	0.08	----
28246	1/4″	0.78	0.91	0.68	0.17	----
28247	3/8″	0.84	0.97	0.81	0.22	----
28248	1/2″	1.09	1.25	1.00	0.40	----
28249	3/4″	1.16	1.39	1.25	0.60	----

FORGED STREET TEE



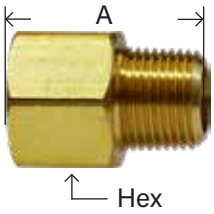
127F

PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	
28253	1/8″	0.56	0.75	0.50	0.05	----
28254	1/4″	1.03	1.00	0.46	0.13	----
28255	3/8″	1.19	1.09	0.68	0.24	----
28256	1/2″	1.52	1.40	0.88	0.45	----

107 T8 127B

EXTENDER ADAPTER

SAE# 130139



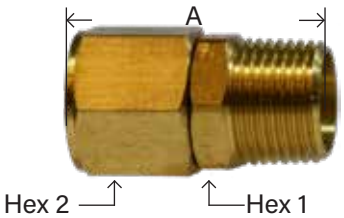
120

PART #	THREAD SIZE NPTF FXM	A	HEX	APPROX. WT. LBS.	
28190L	1/8″ x 1/8″	0.83	0.50	0.03	----
28190	1/8″ x 1/8″	0.88	0.56	0.04	----
28191L	1/4″ x 1/8″	0.94	0.62	0.04	----
28191	1/4″ x 1/8″	1.06	0.75	0.07	----
28192L	1/4″ x 1/4″	1.00	0.62	0.04	----
28192	1/4″ x 1/4″	1.25	0.75	0.07	----
28198	3/8″ x 1/8″	1.00	0.81	0.06	----
28193L	3/8″ x 1/4″	1.12	0.81	0.08	----
28193	3/8″ x 1/4″	1.25	0.87	0.09	----
28194L	3/8″ x 3/8″	1.24	0.81	0.10	----
28194	3/8″ x 3/8″	1.25	0.87	0.11	----
28197	1/2" x 1/8"	1.09	0.94	0.07	----
28199	1/2″ x 1/4″	1.46	1.06	0.08	----
28195L	1/2″ x 3/8″	1.19	0.93	0.09	----
28195	1/2″ x 3/8″	1.47	1.06	0.18	----
28196L	1/2" x 1/2"	1.25	0.94	0.10	----
28196	1/2″ x 1/2″	1.66	1.06	0.12	----
28207	3/4″ x 3/8″	1.59	1.25	0.26	----
28208	3/4″ x 1/2″	1.69	1.37	0.14	----
28208L	3/4″ x 1/2″	1.22	1.25	0.13	----
28209	3/4″ x 3/4″	1.69	1.37	0.34	----

375 222P 3200 R1 120AH 120B

PIPE SWIVEL ADAPTER

*300 PSI all sizes



PART #	THREAD SIZE NPTF FXM	A	HEX 1	HEX 2	APPROX. WT. LBS.	
28424	1/8"	1.10	0.43	0.50	0.05	----
28425	1/4″	1.34	0.56	0.62	0.06	----
28426	3/8″	1.36	0.68	0.75	0.08	----
28427	1/2"	1.87	0.87	0.95	0.10	----

MALE NPT X FEMALE NPT

- 360° Turning
- Swivels

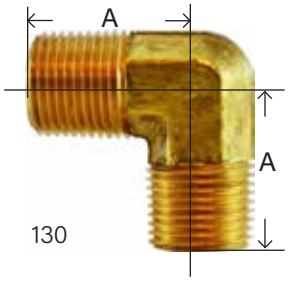
PART #	SIZE	
320061	1/4	----

344R 3183

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PIPE
BRASS FITTINGS

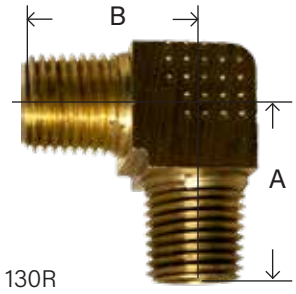
FORGED 90° MALE ELBOW



PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.	
28266	1/8″	0.79	0.38	0.04	----
28267	1/4″	0.87	0.45	0.06	----
28268	3/8″	1.06	0.59	0.12	----
28269	1/2″	1.38	0.78	0.21	----

LE5 3455 116AMF

BARSTOCK 90° MALE ELBOW



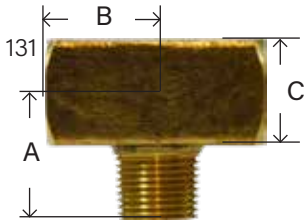
PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.	
28266B	1/8"	0.69	0.56	0.08	----
28267B	1/4"	0.95	0.59	0.09	----
28268B	3/8"	1.01	0.71	0.15	----
28269B	1/2"	1.40	1.00	0.38	----
28270B	3/4"	1.50	1.25	0.55	----
28276B	1/2" x 3/8"	1.12	1.00	0.35	----

FORGED 90° MALE REDUCING ELBOW

PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	
28274	1/4″x 1/8″	0.88	0.78	0.47	0.06	----
28275	3/8″ x 1/4″	0.90	0.90	0.46	0.06	----
28276	1/2″ x 3/8″	1.12	1.00	0.59	0.12	----

MALE BRANCH TEE

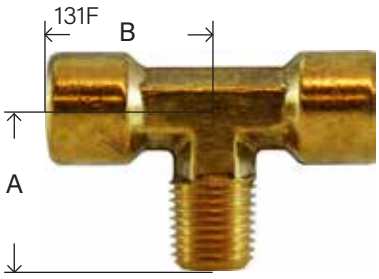
SAE# 130425



PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.	
28281	1/8″	0.66	0.55	0.56	0.08	----
28282	1/4″	0.91	0.78	0.68	0.15	----
28283	3/8″	0.97	0.84	0.81	0.22	----
28284	1/2″	1.25	1.09	1.00	0.40	----
28285	3/4″	1.38	1.16	1.25	0.62	----

T9 X106 23601 3600 2224P 226 329 128

FORGED MALE BRANCH TEE



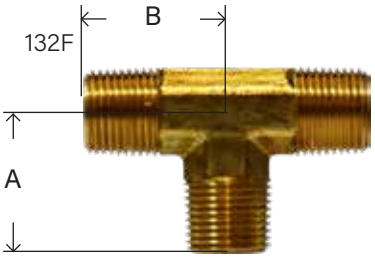
PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	
28281F	1/8″	0.75	0.56	0.50	0.06	----
28282F	1/4″	1.00	1.03	0.46	0.12	----

T9

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PIPE
BRASS FITTINGS

FORGED ALL MALE TEE

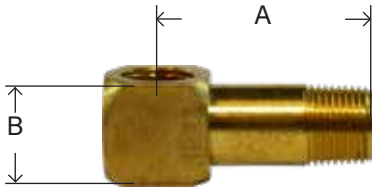


PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	
28290	1/8″	0.75	0.75	0.43	0.06	----
28291	1/4″	0.86	0.86	0.43	0.08	----
28292	3/8″	1.09	1.09	0.60	0.16	----
28293	1/2″	1.22	1.22	0.68	0.22	----
28294	3/4″	1.43	1.43	0.87	0.38	----

T12 M101

LONG STREET ELLS

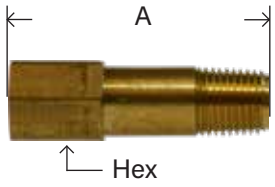
D.O.T. Approved



PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	
28440	1/8″	1-3/16″	0.50	0.06	----
28441	1/8″	1-7/16″	0.50	0.06	----
28442	1/8″	1-11/16″	0.50	0.06	----
28443	1/8″	1-7/8″	0.50	0.16	----
28328	1/4″	1-3/16″	0.75	0.12	----
28329	1/4″	1-7/16″	0.75	0.14	----
28330	1/4″	1-11/16″	0.75	0.15	----
28331	1/4"	1-7/8"	0.62	0.09	----
28332	1/4″	2-1/4″	0.75	0.17	----
28333	3/8″	1-3/4″	0.87	0.22	----

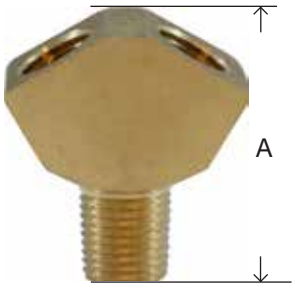
LONG EXTENSION ADAPTERS

D.O.T. Approved

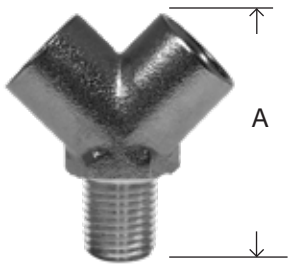


PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	
28335	1/8″	1-1/4″	0.50	0.04	----
28336	1/8″	1-3/4″	0.50	0.05	----
28337	1/8″	3″	0.50	0.09	----
28338	1/4″	1-9/16″	0.62	0.07	----
28339	1/4″	1-13/16″	0.62	0.08	----
28340	1/4″	2-1/16″	0.62	0.10	----

PIPE WYE FIP X MIP



28-295



28-296

PART #	THREAD SIZE NPT	A	APPROX. WT. LBS.	
28295	1/4"	1.56	.15	----
28296	1/4 N/P	1.4	.12	----

PIPE WYE FIP X FIP - NICKEL PLATED

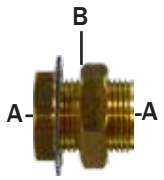
PART #	THREAD SIZE NPT	A	APPROX. WT. LBS.	
28298	1/4	1.4	.12	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BULKHEAD FITTINGS
BRASS FITTINGS

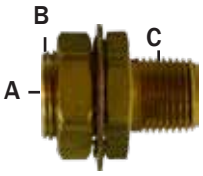
BULKHEAD / ANCHOR / FRAME COUPLINGS

FEMALE PIPE X
FEMALE PIPE



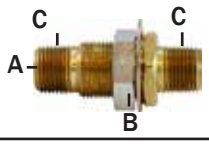
Part #	Terminal Bolts/ Frame A	B	Hole Size	Length (in.)	
28299	1/8-27 NPTF	5/8-18 UNS	5/8	0.96	----
28300	1/8-27 NPTF	5/8-18 UNS	5/8	1-1/2	----
28301	1/4-18 NPTF	3/4-16 UNS	3/4	15/16	----
28302	1/4-18 NPTF	3/4-16 UNS	3/4	1-1/2	----
28315*	1/4-18 NPTF	3/4-16 UNS	3/4	1-1/2	----
28303	3/8-18 NPTF	1-14 UNS	1	1-5/16	----
28304	1/2-14 NPTF	1-1/8-14 UNS	1-1/8	1-1/2	----
28311	3/4-14 NPTF	1-5/16-12	1-5/16	1-1/2	----
28316**	1-11/1/2	1-5/8-14	1-5/8	1.68	----

* Same as 28-302 except with a larger mounting nut. **Without washer



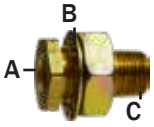
FEMALE PIPE X MALE PIPE

	A	B	C		
28317	1/4-18 NPTF	1-14 UNS	1/2-14 NPTF	2-1/8	----
28318	3/8-18 NPTF	1-14 UNS	1/2-14 NPTF	1-11/16	----
28319	3/8-18 NPTF	1-14 UNS	1/2-14 NPTF	1-29/32	----



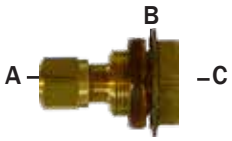
FEMALE PIPE X MALE PIPE

28313	1/4-18 NPTF	1-14 UNS	1/2-14 NPTF	2-7/8	----



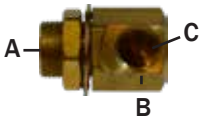
FEMALE PIPE X MALE PIPE

28346	3/8-18 NPTF	1-14 UNS	1/2-14 NPTF	1-7/8	----
28347	1/2-14 NPTF	1-14 UNS	1/2-14 NPTF	2-3/8	----



TUBE X FEMALE PIPE

28321	1/2-O.D. Tube	7/8-20 UNCF	3/8-18 NPTF	1-5/16	----
28322	3/8-O.D. Tube	7/8-20 UNCF	3/8-18 NPTF	1-3/8	----



FEMALE PIPE X CLAMPING STUD ELBOW

28348	3/8-18 NPTF	7/8-20 UNEF	3/8-18 NPTF	2-5/16	----

BRASS MARINE BULKHEAD

46540	5/16 Hose ID	----	----	2.37	----
46541	3/8 Hose ID	----	----	2.37	----

CROSSOVER NUMBERS

28-300	207x2	129A-A	50004	55207								1495B-A	ACBH207-2	207ACBH-2					
28-301	207X4	129AS-B		55611		S611	114-44	1345	382-44S	392C-94			ACBHS207-4						
28-302	207X4	129A-B	50005	55661			114B-44	1344	382-44L		035081		ACBH207-4	207ACBH-4			11306		90648
28-303	207X6	129A-C	50006	55607		S661/ S607	114-66	1346	382-66		035087		ACBH207-6	207ACBH-6			11307	17709	
28-304	207X8	129A-D	50007	55807		S807	114-88	1351					ACBH207-8	207ACBH-8					
28-317				55615		S615	117-84												
28-318				55620		S620			381-86S						11304				
28-319			50001				115-86				035079	1496-DC							
28-313			50010	55600		S664	115-88	1342	380-84	5730	035021				11300	55X6			
28-346			50013	55613		S613													
28-347			50012	55629		S629					035039								
28-321					391-86/1347	S608													
28-322					391-66	S609													
28-348				55616															

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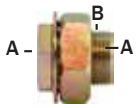
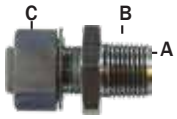
BULKHEAD FITTINGS
BRASS FITTINGS

STEEL BULKHEAD FITTINGS

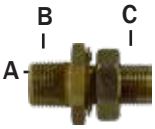


Part #	Terminal Bolts/ Frame A	B	C	Length (in.)	List
28306	1/4-18 NPTF	3/4 - 16 UNS		0.94	----
28307	1/4-18 NPTF	3/4 - 16 UNS		1.50	----
28308	3/8-18 NPTF	1 - 14 UNS		1.31	----

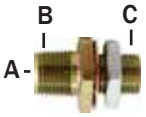


FEMALE PIPE X MALE PIPE

28309	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	2.16	----
28310	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	2.53	----

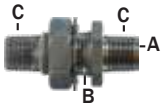


28345	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	2-5/32	----



FEMALE PIPE X MALE PIPE

28325	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	1-11/16	----



28312	1/4-18 NPTF	1-14 UNS	1/2-14 NPTF	2.94	----
28320	1/4-18 NPTF	1-14 UNS	1/2-14 NPTF	3-15/16	----

STAINLESS STEEL BULKHEAD FITTINGS

- Temperature range: -20F°- 360F°
- Working pressure: 1450 - 2175PSI

BULKHEAD FITTINGS - STAINLESS STEEL 316L NPT (1/8-1/2")

PART #	SIZE	HOLE SIZE	HEX	LENGTH	
28300SS	1/8"	0.701	0.866	0.748	----
28301SS	1/4"	0.858	1.063	0.748	----
28303SS	3/8"	1.055	1.260	1.102	----
28304SS	1/2"	1.173	1.417	1.378	----

BULKHEAD FITTINGS - STAINLESS STEEL 316 NPT (3/4-2")

PART #	SIZE	HOLE SIZE	HEX	LENGTH	
63214	3/4"	1-5/8"	2-15/32"	1-13/16"	----
63215	1"	2-1/4"	3-1/16"	2-7/8"	----
63216	1-1/4"	2-1/4"	3-1/16"	2-3/8"	----
63217	1-1/2"	3"	4-1/4"	2-5/8"	----
63218	2"	3"	4-1/4"	2-5/8"	----

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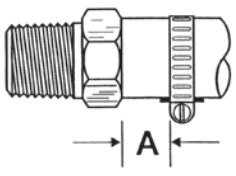
HOSE BARB FITTINGS

▪ **Temperature and Working Pressure Ranges**
From -40^{0}F to + 160^{0}F at 150 PSI maximum.

▪ **Tolerance**
+/- .02 on all dimensions. Dimension Data can change without notice. Please call us when dimensions are critical.

Note: These fittings are intended for use with hose clamp, similar type clamp or a crimped ferrule.

▪ **Assembly Instructions**
1- Cut hose cleanly and squarely to length.
2- Slide clamp on hose.
3- Lubricate hose. Push hose on fitting until hose bottoms against stop ring or hex.
4- Position hose clamp as shown below and secure with a screwdriver or wrench. Maintain "A" dimension noted below for proper clamp positioning.



▪ For Lead Free AB1953 Compliant Fittings
see pages 161
Other Barbs available

See page 334-347 for plastic hose barb fittings

See page 27-28 for stainless steel hose barbs

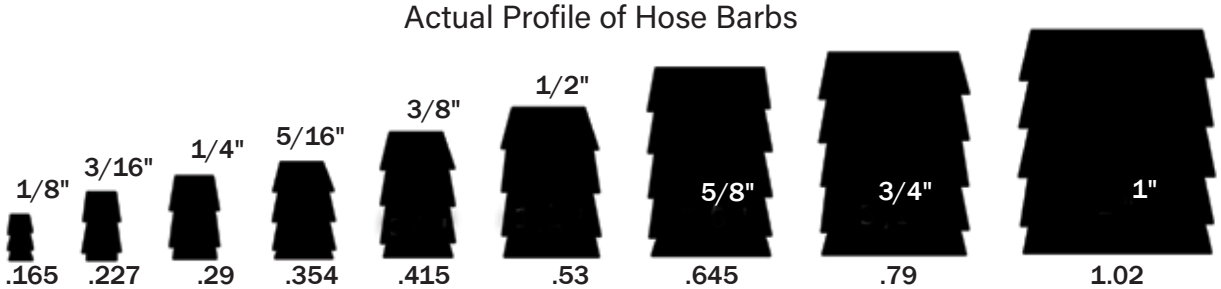
See page 358 for King Nipples

Stainless Steel hose barbs for beverage service
available -

See beverage fitting section, pg. 28-29

Hose Size	A
3/16"	1/4"
1/4"	1/4"
5/16"	1/4"
3/8"	1/8"
1/2"	1/8"
5/8"	1/8"
3/4"	1/8"

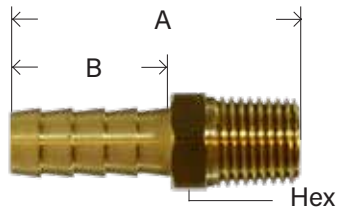
Actual Profile of Hose Barbs



WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

RIGID MALE ADAPTER

- These are not Lead Free



29
129

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	
32950	1/16" x 10/32"	0.90	0.45	0.38	0.01	----
32951	1/16" x 1/16"	0.91	0.48	0.38	0.01	----
32912	1/8" x 10/32"	0.92	0.48	0.38	0.01	----
32300	1/8" x 1/16"	0.93	0.48	0.38	0.01	----
32001 *	1/8" x 1/8"	1.19	0.69	0.43	0.02	----
32027	1/8" x 1/4"	1.16	0.46	0.56	0.02	----
32952	3/16" x 1/16"	1.20	0.75	0.38	0.02	----
32002 *	3/16" x 1/8"	1.19	0.75	0.43	0.02	----
32003 *	3/16" x 1/4"	1.37	0.69	0.56	0.04	----
32953	3/16" x 3/8"	1.44	0.69	0.68	0.04	----
32301	1/4" x 1/16"	1.44	0.88	0.43	0.02	----
32004 *	1/4" x 1/8"	1.47	0.97	0.43	0.02	----
32005 *	1/4" x 1/4"	1.72	0.97	0.56	0.04	----
32006 *	1/4" x 3/8"	1.72	0.97	0.68	0.05	----
32007	1/4" x 1/2"	1.72	0.81	0.87	0.10	----
32954	1/4" x 3/4"	1.86	0.96	1.06	0.15	----
32008 *	5/16" x 1/8"	1.47	0.97	0.43	0.02	----
32009 *	5/16" x 1/4"	1.72	0.97	0.56	0.04	----
32010 *	5/16" x 3/8"	1.76	0.97	0.68	0.06	----
32011 *	3/8" x 1/8"	1.53	0.97	0.56	0.03	----
32012 *	3/8" x 1/4"	1.75	0.97	0.56	0.05	----
32013 *	3/8" x 3/8"	1.72	0.96	0.68	0.06	----
32014 *	3/8" x 1/2"	1.87	0.97	0.87	0.09	----
32026 *	3/8" x 3/4"	1.97	0.97	1.06	0.16	----
32956	7/16" x 1/4"	1.75	0.97	0.56	0.05	----
32957	7/16" x 3/8"	1.73	0.97	0.70	0.07	----
32958	7/16" x 1/2"	1.87	0.97	0.88	0.10	----
32302	1/2" x 1/8"	1.57	0.95	0.56	0.06	----
32015 *	1/2" x 1/4"	1.72	0.97	0.56	0.04	----
32016 *	1/2" x 3/8"	1.76	0.97	0.68	0.07	----
32017 *	1/2" x 1/2"	1.87	0.96	0.87	0.11	----
32018 *	1/2" x 3/4"	1.94	0.97	1.06	0.16	----
32303	1/2" x 1"	2.31	0.99	1.37	0.33	----
32304	5/8" x 1/4"	1.67	0.92	0.68	0.06	----
32019 *	5/8" x 3/8"	1.76	0.97	0.68	0.08	----
32020 *	5/8" x 1/2"	1.87	0.96	0.87	0.11	----
32021 *	5/8" x 3/4"	1.87	0.96	1.06	0.14	----
32305	5/8" x 1"	2.31	0.96	1.37	0.36	----
32915	3/4" x 1/4"	1.64	0.87	0.81	0.11	----
32306	3/4" x 3/8"	1.65	0.87	0.81	0.12	----
32022 *	3/4" x 1/2"	1.87	0.96	0.87	0.14	----
32023 *	3/4" x 3/4"	1.87	0.96	1.06	0.15	----
32316	3/4" x 1"	2.55	1.15	1.37	0.38	----
32307	1" x 1/2"	1.80	0.87	1.06	0.18	----
32024 *	1" x 3/4"	2.19	1.19	1.06	0.32	----
32025 *	1" x 1"	2.48	1.19	1.37	0.39	----
32029	1-1/4" x 3/4"	2.37	1.19	1.37	0.35	----
32028	1-1/4" x 1"	2.55	1.19	1.37	0.46	----

4244 PGH 101 102 201A 125HBL 105B-1 KF-PS MPB

* See page 27 for stainless steel.

See page 28 for beverage #303 stainless fittings

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

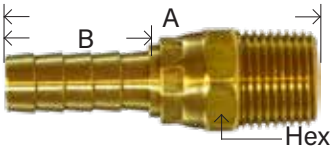
HOSE BARB
BRASS FITTINGS

BRASS RIGID MALE BSPT BARB ADAPTER

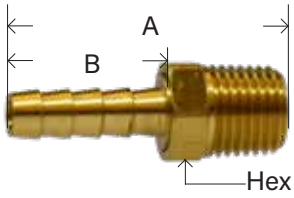
29SWV
29MS

PART #	HOSE I.D. X MALE BSPT	
32450	1/4" x 1/8"	----
32451	1/4" x 1/4"	----
32452	3/8" x 1/4"	----
32453	3/8" x 3/8"	----
32454	3/8" x 1/2"	----
32455	1/2" x 3/8"	----
32456	1/2" x 1/2"	----
32457	3/4" x 3/4"	----
32458	1" x 1"	----

SWIVEL MALE ADAPTER



Rotation 360°

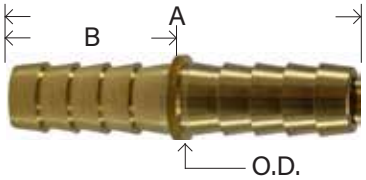


PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	
32329	3/16" x 1/8"	2.00	0.78	0.56	0.06	----
32331	3/16" x 1/4"	1.95	0.78	0.56	0.06	----
32332	1/4" x 1/8"	2.19	0.97	0.56	0.06	----
32349	1/4" x 1/4"	2.12	0.97	0.56	0.06	----
32351	3/8" x 1/8"	2.12	0.97	0.56	0.07	----
32201	3/8" x 1/4"	2.12	0.97	0.56	0.07	----
32360	3/8" x 3/8"	2.12	0.97	0.69	0.08	----
32355	1/2" x 3/8"	2.12	0.97	0.68	0.10	----
32356	1/2" x 1/2"	2.33	0.97	0.87	0.14	----
32357	3/4" x 3/4"	2.33	0.97	1.06	0.20	----
32386	1" x 1"	2.88	1.19	1.38	0.40	----

SMS 103

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	
32200	1/4" x 1/4"	1.65	.89	0.56	0.04	----
32202	3/8" x 3/8"	1.75	1.00	0.68	0.08	----

MENDER/ SPLICER



29S
129S

PART #	HOSE I.D. X HOSE I.D.	A	B	O.D.	APPROX. WT. LBS.	
32091 *	1/8"	0.98	0.45	0.31	0.01	----
32092	3/16"	1.62	0.77	0.36	0.02	----
32093 *	1/4"	2.00	0.96	0.37	0.02	----
32079 *	1/4" x 1/8"	1.50	0.97	0.37	0.02	----
32094 *	5/16"	2.00	0.96	0.39	0.02	----
32090 *	5/16" x 1/4"	2.00	0.97	0.50	0.03	----
32095 *	3/8"	2.00	0.97	0.51	0.04	----
32960	3/8 x 1/8	1.58	1.00	0.50	0.03	----
32961	3/8 x 3/16	1.75	1.00	0.50	0.03	----
32080 **	3/8" x 1/4"	2.06	0.97	0.56	0.03	----
32375 *	3/8" x 5/16"	2.00	0.97	0.50	0.03	----
32096 *	1/2"	2.00	0.96	0.62	0.06	----
32087 *	1/2" x 3/8"	2.06	0.97	0.71	0.06	----
32097	5/8"	2.05	0.96	0.75	0.08	----
32088	5/8" x 3/8"	2.06	0.97	0.75	0.06	----
32376	5/8" x 1/2"	2.06	0.97	0.75	0.07	----
32098 *	3/4"	2.50	1.15	0.87	0.10	----
32089	3/4" x 1/2"	2.28	1.19	0.87	0.10	----
32379	3/4" x 5/8"	2.02	0.96	0.87	0.10	----
32380	1" x 3/4"	2.58	1.19	1.12	0.18	----
32099	1"	3.00	1.44	1.12	0.23	----

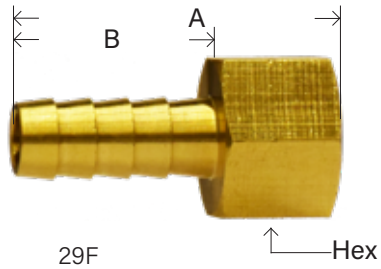
MSB 122HBL HM 129 178 73 108

* Add SS to the end of the part number for Stainless.
** See hose splicers on page 27 for Stainless.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE BARB
BRASS FITTINGS

RIGID FEMALE ADAPTER



29F
129F

PART #	HOSE I.D. X FEMALE NPTF	A	B	HEX	APPROX. WT. LBS.	
32050	1/8″ x 1/8″	0.96	0.46	0.50	0.02	----
32317	1/8″ x 1/4″	1.15	0.46	0.62	0.04	----
32051	3/16″ x 1/8″	1.10	0.68	0.50	0.02	----
32062	3/16″ x 1/4″	1.44	0.75	0.62	0.04	----
32052	1/4″ x 1/8″	1.35	0.93	0.50	0.02	----
32053	1/4″ x 1/4″	1.60	0.97	0.62	0.06	----
32054	1/4″ x 3/8″	1.65	1.03	0.75	0.04	----
32441	1/4" x 1/2"	1.66	0.97	0.93	0.08	----
32055	5/16″ x 1/8″	1.47	0.97	0.56	0.04	----
32056	5/16″ x 1/4″	1.66	0.97	0.62	0.04	----
32318	5/16″ x 3/8″	1.66	0.97	0.75	0.06	----
32320	5/16″ x 1/2″	1.67	0.96	0.93	0.08	----
32057	3/8″ x 1/8″	1.47	0.97	0.56	0.04	----
32058	3/8″ x 1/4″	1.61	0.97	0.62	0.06	----
32059	3/8″ x 3/8″	1.63	1.00	0.81	0.08	----
32063	3/8″ x 1/2″	1.72	0.94	0.93	0.12	----
32442	3/8" x 3/4"	1.97	0.97	1.18	0.20	----
32449	1/2" x 1/8"	1.51	0.98	0.56	0.06	----
32064	1/2″ x 1/4″	1.66	0.96	0.62	0.08	----
32060	1/2″ x 3/8″	1.66	0.97	0.75	0.08	----
32061	1/2″ x 1/2″	1.76	0.96	0.93	0.12	----
32443	1/2" x 3/4"	1.97	0.97	1.18	0.26	----
32444	5/8" x 3/8"	1.66	0.97	0.75	0.08	----
32445	5/8" x 1/2"	1.66	0.97	0.93	0.10	----
32446	5/8" x 3/4"	1.97	0.97	1.18	0.21	----
32447	3/4" x 1/2"	1.88	1.19	0.93	0.13	----
32065	3/4″ x 3/4″	2.19	1.21	1.18	0.22	----
32049	1″ x 3/4″	2.19	1.19	1.18	0.26	----
32321	1" x 1"	2.32	1.19	1.44	0.35	----
32448	1-1/4" x 1"	2.32	1.19	1.43	0.44	----

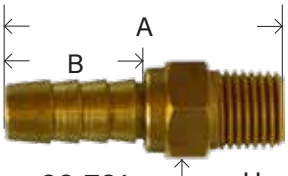
209A 128 29A 29F 126HB 126 FPB 105B-2 KF-RS 104 144

SWIVEL FEMALE ADAPTER NPTF

PART #	HOSE I.D. X FEMALE NPTF	A	B	HEX	APPROX. WT. LBS.	
32470	1/4" x 1/4"	1.80	0.97	0.62	0.06	----
32472	3/8" x 1/4"	1.80	0.97	0.62	0.06	----
32473	3/8" x 3/8"	1.82	0.97	0.75	0.09	----
32475	1/2" x 3/8"	1.82	0.97	0.75	0.09	----
32476	1/2" x 1/2"	1.86	0.97	0.93	0.14	----

HIGH VOLUME MALE SWIVEL

▪ 300 PSI ▪ Nitrile Buna (NBR) O-Ring



32-781

28-415 & 28-417

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	
32781	3/8″ x 1/4″	1.83	0.87	0.62	0.07	----
28415	1/4" x 1/4"	1.30	0.94	0.81	0.14	----
28417	3/8" x 1/4"					

4065

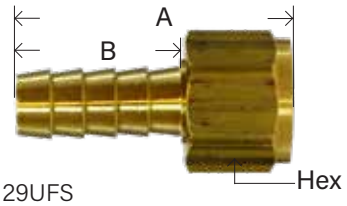
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE BARB
BRASS FITTINGS

SWIVEL FEMALE ADAPTER - WITH GASKET

- NPSM Thread

National Pipe Straight Gasket Seal Swivel



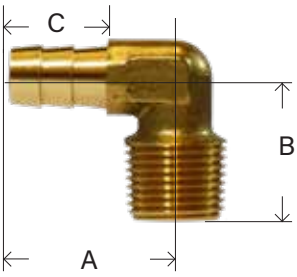
29UFS
129UFS

- Not recommend for water due to fiber gasket - for air service only.

PART #	HOSE I.D. X FEMALE NPSM	A	B	HEX	APPROX. WT. LBS.	
32131	1/8" x 1/8"	0.90	0.46	0.50	0.02	----
32132	3/16" x 1/8"	1.19	0.75	0.50	0.03	----
32133	3/16" x 1/4"	1.28	0.75	0.62	0.04	----
32120	1/4" x 1/8"	1.41	0.97	0.50	0.02	----
32121	1/4" x 1/4"	1.50	0.97	0.62	0.02	----
32129	1/4" x 3/8"	1.63	0.97	0.75	0.04	----
32130	5/16" x 1/4"	1.50	0.97	0.62	0.04	----
32122	3/8" x 1/4"	1.54	1.00	0.62	0.06	----
32123	3/8" x 3/8"	1.60	0.97	0.75	0.06	----
32354	3/8" x 1/2"	1.66	0.97	0.93	0.10	----
32124	1/2" x 3/8"	1.60	0.97	0.75	0.08	----
32125	1/2" x 1/2"	1.66	0.97	0.93	0.12	----
32117	1/2" x 3/4"	1.82	1.19	1.18	0.16	----
32118	5/8" x 3/4"	1.82	1.19	1.18	0.18	----
32119	3/4" x 3/4"	1.82	1.19	1.18	0.14	----

130 126 29FSG KF-RN NPSM Gasket Seat

FORGED HOSE BARB 90° ELBOW



29E
129E

32-330
**Square Barstock Body

PART #	HOSE I.D. X MALE NPTF	A	B	C	BODY SIZE	APPROX. WT. LBS.	
32308	3/16" x 1/8"	0.95	0.70	0.66	0.37	0.02	----
32391	3/16" x 1/4"	1.00	0.84	0.63	0.46	0.10	----
32038 *	1/4" x 1/8"	1.01	0.81	0.71	0.47	0.06	----
32039 *	1/4" x 1/4"	1.01	0.87	0.63	0.47	0.06	----
32309 **	1/4" x 3/8"	1.08	0.97	0.73	0.69	0.12	----
32036	5/16" x 1/8"	1.01	0.81	0.63	0.47	0.04	----
32040	5/16" x 1/4"	1.01	0.87	0.63	0.47	0.06	----
32310	5/16" x 3/8"	1.06	0.94	0.63	0.50	0.06	----
32046 *	3/8" x 1/8"	1.01	0.81	0.63	0.47	0.06	----
32041 *	3/8" x 1/4"	1.02	0.88	0.65	0.47	0.06	----
32042 *	3/8" x 3/8"	1.09	0.93	0.68	0.50	0.08	----
32047 *	3/8" x 1/2"	1.11	1.09	0.63	0.59	0.10	----
32048	1/2" x 1/4"	1.06	1.00	0.68	0.59	0.10	----
32043 *	1/2" x 3/8"	1.06	1.09	0.69	0.59	0.10	----
32311 *	1/2" x 1/2"	1.31	1.19	0.87	0.56	0.12	----
32044	5/8" x 3/8"	1.12	1.06	0.61	0.56	0.12	----
32045	5/8" x 1/2"	1.12	1.12	0.68	0.63	0.14	----
32312	5/8" x 3/4"	1.46	1.26	0.93	1.06	0.32	----
32313	3/4" x 1/2"	1.31	1.28	0.87	0.85	0.22	----
32314 *	3/4" x 3/4"	1.46	1.26	0.91	1.06	0.32	----
32330 **	3/4" x 1"	1.57	1.64	0.90	1.34	0.64	----
32315	1" x 3/4"	1.60	1.40	0.95	1.06	0.32	----
32319	1" x 1"	1.69	1.64	0.98	1.30	0.43	----

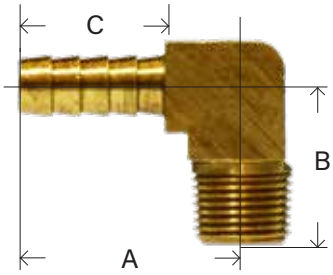
129 HBE1 KF-PS90 HE-1 29E 146

* Add SS to the end of the part number for Stainless. See page 27.

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BARSTOCK HOSE BARB 90° ELBOW

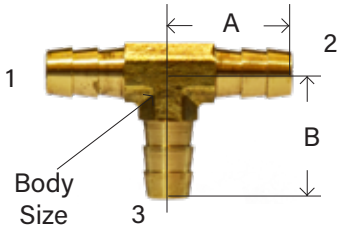


29EBS

PART #	HOSE I.D. X MALE NPTF	A	B	C	BODY SIZE	APPROX. WT. LBS.	
32038B	1/4″ X 1/8″	1.00	0.75	0.75	0.50	0.02	----
32039B	1/4″ X 1/4″	1.02	0.91	0.74	0.56	0.04	----
32309B	1/4" X 3/8"	1.19	0.84	0.76	0.58	0.09	----
32036B	5/16" X 1/8"	1.06	0.66	0.76	0.44	0.04	----
32040B	5/16" X 1/4"	1.12	0.84	0.76	0.58	0.07	----
32310B	5/16" X 3/8"	1.19	0.84	0.76	0.72	0.09	----
32046B	3/8" X 1/8"	1.32	0.94	0.97	0.58	0.06	----
32041B	3/8″ X 1/4″	1.32	0.89	0.97	0.58	0.08	----
32042B	3/8″ X 3/8″	1.50	1.06	0.97	0.75	0.14	----
32047B	3/8" X 1/2"	1.52	1.25	0.97	0.90	0.26	----
32048B	1/2" X 1/4"	1.53	1.06	0.97	0.72	0.12	----
32043B	1/2″ X 3/8″	1.53	1.07	0.97	0.72	0.16	----
32311B	1/2" X 1/2"	1.53	1.25	0.97	0.90	0.26	----
32314B	3/4" X 3/4"	1.33	1.27	0.97	1.10	0.32	----

129HB

HOSE BARB TEES



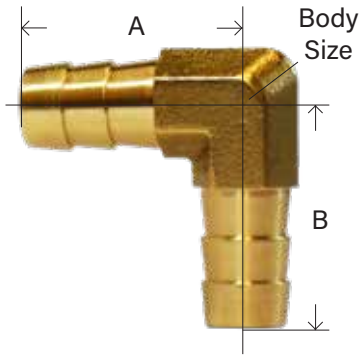
29T
129T

32-128

PART #	HOSE BARB SIZE (1 & 2) X 3	A	B	BODY SIZE	APPROX. WT. LBS.	
32367 *	1/8″	0.84	0.83	0.25	0.02	----
32368	3/16"	1.02	1.02	0.37	0.03	----
32365 **	1/4″	1.00	1.00	0.44	0.06	----
32350 *	(1/4") x 1/8"	0.94	0.94	0.44	0.04	----
32366	5/16″	1.00	1.00	0.44	0.06	----
32126 **	3/8″	1.01	1.01	0.43	0.06	----
32400 *	1/2″	1.02	1.00	0.43	0.08	----
32352 *	(1/2") x 3/8"	1.26	1.26	0.43	0.10	----
32361	5/8"	1.26	1.26	0.75	0.16	----
32363	3/4"	1.45	1.45	0.90	0.18	----
32353	(3/4") x 1/2"	1.41	1.41	0.88	0.23	----
32128 *	3/8″HB x 1/4″ MIP	1.00	0.94	0.43	0.06	----

* Add SS to the end of the part number for Stainless.
** See page 29 for stainless steel.

90° HOSE BARB ELBOW



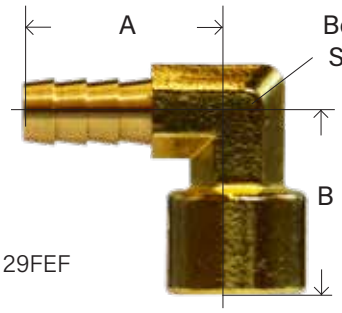
PART #	HOSE I.D. X HOSE I.D.	A	B	BODY SIZE	APPROX. WT. LBS.	
32429	1/8" x 1/8"	0.55	0.55	0.37	0.03	----
32433	3/16" x 3/16"	0.90	0.90	0.37	0.03	----
32412	1/4″ x 1/8″	1.02	1.02	0.44	0.04	----
32413 *	1/4″ x 1/4″	1.01	1.01	0.44	0.04	----
32425	5/16" x 5/16"	1.15	1.15	0.48	0.05	----
32414	3/8″ x 1/8″	1.01	1.01	0.44	0.04	
32415	3/8″ x 1/4″	1.00	1.00	0.44	0.04	
32416 *	3/8″ x 3/8″	1.02	1.02	0.44	0.04	----
32417	3/8″ x 1/2″	1.24	1.10	0.50	0.06	
32418	1/2″ x 1/4″	1.24	1.08	0.50	0.06	
32419	1/2″ x 3/8″	1.22	1.09	0.50	0.06	
32420 *	1/2″ x 1/2″	1.24	1.24	0.50	0.06	----
32434	5/8" x 5/8"	1.20	1.20	0.75	0.16	----
32435	3/4" x 1/2"	1.41	1.41	0.88	0.21	----
32436	3/4" x 3/4"	1.41	1.41	0.88	0.21	----

* Add SS to the end of the part number for Stainless.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE BARB
BRASS FITTINGS

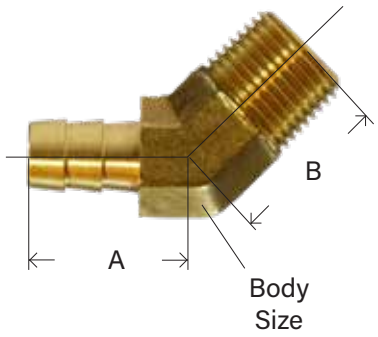
90° FEMALE HOSE BARB ELBOW



29FEF

PART #	HOSE I.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
32401	1/4″ x 1/8″	1.01	0.82	0.47	0.06	----
32402	1/4″ x 1/4″	1.13	0.91	0.56	0.10	----
32403	3/8″ x 1/8″	1.01	0.82	0.47	0.06	----
32404	3/8″ x 1/4″	1.15	0.91	0.56	0.10	----
32405	3/8″ x 3/8″	1.15	1.11	0.68	0.14	----
32406	3/8″ x 1/2″	1.26	1.39	0.75	0.20	----
32407	1/2″ x 1/4″	1.26	0.91	0.56	0.10	----
32410	1/2″ x 3/8″	1.24	1.11	0.68	0.14	----
32411	1/2″ x 1/2″	1.37	1.39	0.75	0.20	----
32409	3/4" x 3/4"	1.52	1.75	0.81	0.50	----

45° ELBOW



294S
1294S

PART #	HOSE I.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
32110	1/4″ x 1/8″	0.91	0.62	0.53	0.04	----
32109*	1/4″ x 1/4″	1.00	0.62	0.57	0.06	----
32111	3/8″ x 1/8″	0.83	0.66	0.53	0.04	----
32112	3/8″ x 1/4″	0.82	0.84	0.53	0.06	----
32113	3/8″ x 3/8″	0.93	0.87	0.59	0.08	----
32346	1/2″ x 1/4″	1.00	0.84	0.59	0.08	----
32114	1/2″ x 3/8″	1.00	0.88	0.59	0.08	----
32116	1/2" x 1/2"	1.15	0.94	0.59	0.12	----
32115	5/8″ x 3/8″	0.97	0.88	0.59	0.10	----
32345	3/4" x 1/2"	1.15	0.94	0.81	0.13	----

* Barstock

140 HE145 139HB KF-PS45 13945

CROSSES

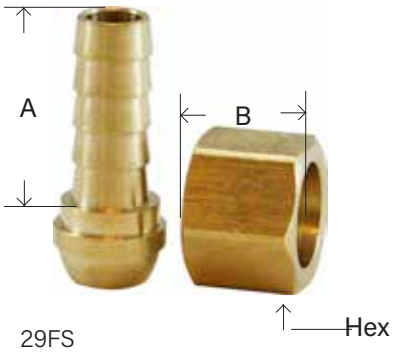
PART #	HOSE ID	
32608	1/4	----
32609	5/16	----
32610	3/8	----

Hose Wyes available with extended lead time.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE BARB
BRASS FITTINGS

BALL END SWIVEL
NPSM - Ball seat type

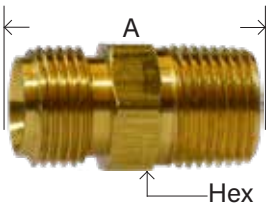


29FS
129FS

PART #	HOSE I.D. X NPSM	A	B	HEX	APPROX. WT. LBS.	
32066	1/8" x 1/8"	0.46	0.44	0.50	0.03	----
32067	3/16" x 1/8"	0.75	0.44	0.50	0.03	----
32068	3/16" x 1/4"	0.75	0.52	0.62	0.04	----
32962	3/16" x 3/8"	0.75	0.63	0.75	0.05	----
32069	1/4" x 1/8"	0.97	0.44	0.50	0.04	----
32070	1/4" x 1/4"	0.97	0.53	0.62	0.06	----
32078	1/4" x 3/8"	0.97	0.63	0.75	0.06	----
32071	5/16" x 1/4"	0.97	0.52	0.62	0.05	----
32389	5/16" x 3/8"	0.97	0.63	0.75	0.07	----
32072	3/8" x 1/4"	0.97	0.53	0.62	0.06	----
32073	3/8" x 3/8"	0.97	0.59	0.75	0.08	----
32074	3/8" x 1/2"	0.97	0.69	0.94	0.14	----
32075	1/2" x 3/8"	0.97	0.59	0.75	0.08	----
32076	1/2" x 1/2"	0.97	0.69	0.94	0.10	----
32077	3/4" x 3/4"	0.97	0.70	1.12	0.14	----

128HBLSV 29FS 209AS 124 131

BALLSEAT MALE ADAPTER
Beveled seat

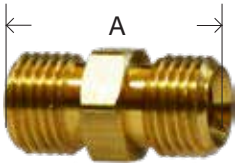


30° Seat

PART #	NPSM X MALE NPTF	A	HEX	APPROX. WT. LBS.	
32359	1/8" x 1/8"	0.94	0.43	0.03	----
32034	1/4" x 1/8"	1.06	0.56	0.04	----
32030	1/4" x 1/4"	1.25	0.56	0.06	----
32362	3/8" x 1/4"	1.28	0.68	0.08	----
32031	3/8" x 3/8"	1.30	0.68	0.08	----
32392	3/8" x 1/2"	1.47	0.88	0.13	----
32364	1/2" x 3/8"	1.35	0.87	0.10	----
32032	1/2" x 1/2"	1.53	0.87	0.14	----
32033	3/4" x 3/4"	1.53	1.06	0.20	----

172 134 127HB 122AS

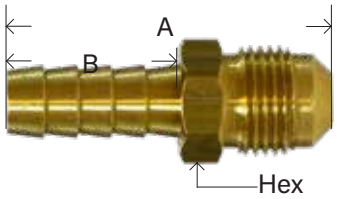
BALLSEAT UNION



30° Seat

PART #	NPSM X NPSM	A	HEX	APPROX. WT. LBS.	
32460	1/8"	0.79	0.43	0.02	----
32461	1/4"	1.09	0.56	0.04	----
32462	3/8"	1.19	0.68	0.07	----
32463	1/2"	1.31	0.87	0.10	----

45° FLARE ADAPTER



29SAE
129SAE

PART #	HOSE I.D. X 45° FLARE	THREAD	A	B	HEX	APPROX. WT. LBS.	
32322	3/16" x 1/4"	7/16-20	1.5	0.75	0.43	0.03	----
32081 *	1/4" x 1/4"	7/16-20	1.72	0.97	0.43	0.03	----
32082 *	1/4" x 3/8"	5/8-18	1.82	0.97	0.62	0.07	----
32083	5/16" x 5/16"	1/2-20	1.75	0.97	0.50	0.08	----
32084 *	3/8" x 3/8"	5/8-18	1.82	0.97	0.62	0.08	----
32085	3/8" x 1/2"	3/4-16	1.97	0.97	0.75	0.10	----
32086	1/2" x 1/2"	3/4-16	1.97	0.97	0.75	0.10	----

* Add SS to the end of the part number for Stainless.

142 201BF KF-MS KDS

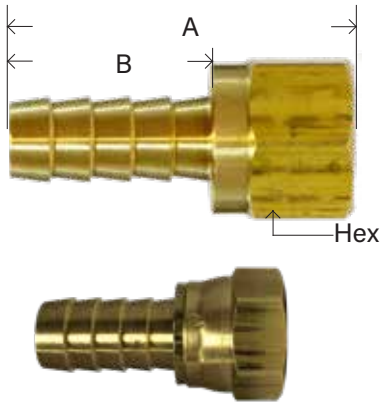
COMPRESSION ADAPTER - BARB X MALE COMPRESSION

PART #	SIZE	
18534	1/4" x 1/4"	

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE BARB
BRASS FITTINGS

DUAL 45°/ 37° FLARE SWIVEL



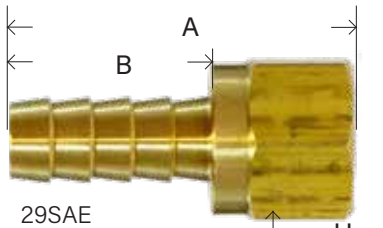
CRIMP STYLE

PART #	HOSE ID X DUAL SEAT	THREAD	A	B	HEX	APPROX. WT. LBS.	
32107	3/16″ x 1/4″	7/16-20	1.34	0.75	0.56	0.04	----
32107C**	3/16 X 1/4	7/16-20	1.42	0.78	0.56	0.04	----
32337	1/4″ x 1/4″	7/16-20	1.56	0.97	0.56	0.04	----
32337C**	1/4" X 1/4"	7/16-20	1.60	0.97	0.56	0.04	----
32102	1/4″ x 5/16″	1/2-20	1.61	0.97	0.62	0.06	----
32339	5/16″ x 5/16″	1/2-20	1.60	0.97	0.62	0.06	----
32340	3/8″ x 1/2″	3/4-16	1.68	0.97	0.87	0.10	----
32341	1/2″ x 1/2″	3/4-16	1.68	0.97	0.87	0.10	----
32341C**	1/2" X 1/2"	3/4-16	1.75	0.97	0.87	0.09	----
32342	1/2″ x 5/8″	7/8-14	1.76	0.97	1.00	0.12	----
32394**	5/8" x 5/8"	7/8-14	1.83	0.97	1.00	0.14	----

** Swivel crimp style

KDS

FEMALE 45° FLARE SWIVEL



29SAE
129SAE

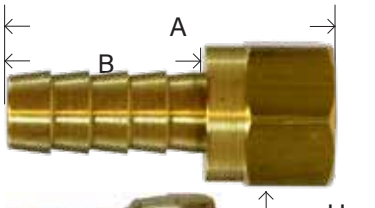
CRIMP STYLE

PART #	HOSE I.D. X FEMALE 45° FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	
32326	3/16″ x 3/16″	3/8-24	1.19	0.75	0.43	0.04	----
30295**	3/16" x 3/8"	5/8-18	1.82	0.90	0.75	0.04	----
32101	1/4″ x 1/4″	7/16-20	1.57	0.97	0.56	0.04	----
32103	1/4″ x 3/8″	5/8-18	1.64	0.97	0.75	0.08	----
32104	5/16″ x 5/16″	1/2-20	1.61	0.97	0.62	0.05	----
32327	5/16″ x 3/8″	5/8-18	1.67	0.97	0.75	0.08	----
32105	3/8″ x 3/8″	5/8-18	1.64	0.97	0.75	0.08	----
32105C**	3/8" x 3/8"	5/8-18	1.71	0.97	0.75	0.07	----
32106	3/8″ x 1/2″	3/4-16	1.81	0.97	0.87	0.10	----
32100	1/2″ x 1/2″	3/4-16	1.68	0.97	0.87	0.12	----
32328	3/4" x 3/4"	1-1/16-14	2.00	0.97	1.25	0.20	----

29SAE 209ASF 146HBLFSV KF-NS 128 FSS 146 144

** Swivel crimp style (crimped on the outside of fitting)

FEMALE 37° J.I.C. FLARE SWIVEL



CRIMP STYLE

STAINLESS STEEL

32338SS

PART #	HOSE ID X FEMALE 37° FLARE	THREAD	A	B	HEX	APPROX. WT. LBS.	
32334	1/4″ x 3/8″	9/16-18	1.60	0.97	0.68	0.06	----
32335	5/16″ x 3/8″	9/16-18	1.60	0.97	0.68	0.06	----
32336	3/8″ x 3/8″	9/16-18	1.60	0.97	0.68	0.10	----
32336C**	3/8" X 3/8"	9/16-18	1.66	0.97	0.68	0.06	----
32338*	3/4" x 3/4"	1-1/16-12	2.00	0.97	1.25	0.20	----
32338SS	3/4" x 3/4"	1-1/16-12	2.00	0.97	1.25	0.24	----
32338C	3/4" x 3/4"	1-1/16-12	2.13	1.19	1.25	0.20	----
32397**	1" x 1"	1-5/16-12	2.31	1.19	1.50	0.33	----

KJS

*Available in swivel crimp style - add a "C" at the end of the part # (100 piece minimum)

** Swivel crimp style

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REUSABLE
BRASS FITTINGS

REUSABLE MALE FITTINGS

29RU17

PART #	HOSE ID	HOSE OD	MALE NPTF	
32727	1/4"	1/2"	1/4"	----
32728	1/4"	9/16"	1/4"	----
32726	1/4"	5/8"	1/4"	----
32741	5/16"	5/8"	1/4"	----
32742	3/8"	5/8"	1/4"	----
32744	3/8"	11/16"	1/4"	----
32725	3/8"	3/4"	1/4"	----
32747	3/8"	5/8"	3/8"	----
32750	3/8"	11/16"	3/8"	----
32746	1/2"	7/8"	1/2"	----

REUSABLE FEMALE SWIVEL STEMS

PART #	HOSE ID	FEMALE NPSM	
32770	1/4"	1/4"-18	----
32771	3/8"	3/8"-18	----

REUSABLE FEMALE SWIV-

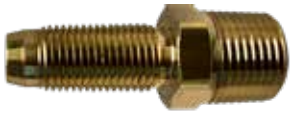
29RU16

PART #	HOSE ID	HOSE OD	FEMALE NPSM	
32772	1/4"	1/2"	1/4"	----
32773	3/8"	5/8"	3/8"	----
32774	3/8"	11/16"	3/8"	----
32775	1/2"	7/8"	1/2"	----

REUSABLE FERRULES

PART #	HOSE ID	HOSE OD	
32749	1/4"	1/2"	----
32751	1/4"	9/16"	----
32752	1/4"	5/8"	----
32753	3/8"	5/8"	----
32754	3/8"	11/16"	----
32755	3/8"	3/4"	----
32756	1/2"	7/8"	----

REUSABLE MALE STEMS



PART #	HOSE ID	MALE NPT THREAD	
32758	1/4"	1/4"	----
32759	3/8"	1/4"	----
32760	3/8"	3/8"	----
32761	1/2"	1/2"	----

obstacles are things a person sees when he takes his eyes off his goal.

– E. Joseph Cossman

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HOSE BARB
BRASS FITTINGS

BRASS FUEL HOSE BARBS

Typical Application: Low pressure air, fuel and oil applications. Generally used for automotive, light truck, and small engine fuel lines. Use with fuel hose SAE 30R7 & SAE 30R9.
Advantages: Easy to assemble, just push the fitting into the hose & clamp. Good selection of configurations at reasonable cost.

MALE CONNECTOR
HOSE BARB X MALE PIPE

159
29SB

PART #	HOSE ID	MIP	IND #	
38800	3/16	1/8	1541	----
38802	1/4	1/8	1537	----
32377	1/4	1/4	1581	----
38806	5/16	1/8	1551	----
38808	5/16	1/4	1555	----
38810	3/8	1/8	1565	----
32381	3/8	1/4	1564	----
32382	3/8	3/8	1566	----
32383	1/2	3/8		----
32384	1/2	1/2		----
32385	5/8	1/2	1431	----
32387	3/4	1/2	1430	----
32388	3/4	3/4		----

68HB

BUBBLE BARB MALE ADAPTER
BUBBLE X MIP

PART #	BUBBLE X MIP	
32176	3/8 x 3/8	----
32177	1/2 x 1/4	----
32178	1/2 x 3/8	----
32179	1/2 x 1/2	----
32182	5/8 x 3/8	----
32183	5/8 x 1/2	----
32184	3/4 x 1/2	----
32180	3/4 x 3/4	----
32185	1 x 3/4	----
32181	1 x 1	----

INVERTED FLARE MALE CONNECTOR
HOSE BARB X INVERTED FLARE

159IN
291FSB

PART #	HOSE ID	INV. FLARE	IND #	
38828	5/16	1/4	1598	----
38830	5/16	5/16	1560	----
38832	5/16	3/8	1561	----
38834	3/8	5/16	1568	----
38836	3/8	3/8	1570	----

269HB

90° MALE ELBOW
HOSE BARB X MALE PIPE

29ESB

PART #	HOSE ID	MIP	IND #	
38860	1/4	1/8	1582	----
38862	5/16	1/8	1556	----
38864	5/16	1/4	1557	----
38866	3/8	1/8	1572	----
38868	3/8	1/4	1571	----

BUBBLE BARB

159E

PART #	HOSE ID	MIP	
32186	3/8	3/8	----
32194	1/2	1/4	----
32187	1/2	3/8	----
32191	1/2	1/2	----
32195	5/8	1/4	----
32188	5/8	3/8	----
32189	5/8	1/2	----
32190	3/4	1/2	----
32192	3/4	3/4	----

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WELDED HOSE FITTINGS
BRASS FITTINGS

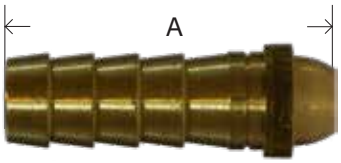
INVERTED FLARE MALE SWIVEL 90° ELBOW
HOSE BARB X TUBE O.D.

159ELS
291MES

Part #	Hose ID	Inv. Flare	Ind #	
38873	5/16	5/16	1405	----
38874	3/8	3/8	1407	----

WELDED HOSE FITTINGS

STEM ONLY - WELDING HOSE CONNECTOR

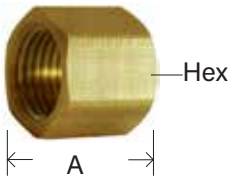


PART #	HOSE I.D.	A	APPROX. WT. LBS.	
30410	3/16″	1.43	0.02	----
30411	1/4″	1.43	0.02	----
30413	3/8″	1.43	0.04	----

Assemble with nuts below.

201RWA WRS WLS

RIGHT HAND 9/16 - 18 FOR OXYGEN LINE - WELDING HOSE NUT

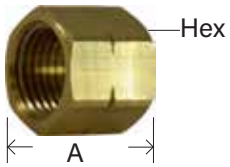


PART #	SIZE	A	HEX	APPROX. WT. LBS.	
30420	R.H. Nut only	0.63	0.68	0.04	----

Assemble with stem above.

201RWA WRS KF-PE 152

LEFT HAND 9/16 - 18 FOR ACETYLENE LINE - WELDING HOSE NUT



PART #	SIZE	A	HEX	APPROX. WT. LBS.	
30421	L.H. Nut only	0.63	0.68	0.04	----

Assemble with stem above.

209LWA WLS 154 KF-RE

RIGHT HAND 9/16 - 18 #122RWA - WELDING HOSE CONNECTOR

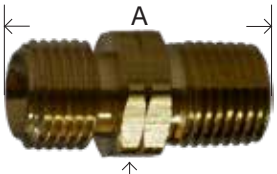
651
WH42R

PART #	SIZE	A	HEX	APPROX. WT. LBS.	
30401	1/4″-18	1.30	0.62	0.06	----
32437	3/8"-18	1.30	0.68	0.09	----
32438*	9/16"-18	1.25	0.68	0.07	----

* Right UNF thread

156

LEFT HAND 9/16 - 18 #122LWA - WELDING HOSE CONNECTOR



652
WH42L

PART #	SIZE	A	HEX	APPROX. WT. LBS.	
30406	1/4″-18	1.30	0.62	0.06	----
32439	3/8"-18	1.30	0.68	0.09	----
32440*	9/16"-18	1.25	0.68	0.07	----

* Left UNF thread

158

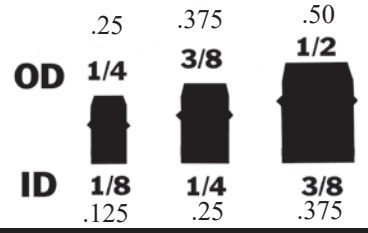
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BARBED FOR PLASTIC TUBING

BRASS FITTINGS

BRASS BARBS FOR POLYETHYLENE TUBING

- Quick connecting fittings that do not require tube preparations for hand assembly. Inexpensive with excellent resistance to vibration.



UNION

29MBS

TUBE O.D. (TUBE I.D.) X TUBE O.D. (TUBE I.D.)

PART #	SIZE	
21003	1/4(1/8) x 1/4(1/8)	----
21007	3/8(1/4) x 1/4(1/8)	----
21009	3/8(1/4) x 3/8(1/4)	----

MALE ADAPTER

29MB

TUBE O.D. (TUBE I.D.) X MALE PIPE

PART #	SIZE	
21021	1/4(1/8) x 1/16	----
21023	1/4(1/8) x 1/8	----
21025	1/4(1/8) x 1/4	----
21027	3/8(1/4) x 1/8	----

1068 968 688

FEMALE ADAPTER

29FMB

TUBE O.D. (TUBE I.D.) X FEMALE PIPE

PART #	SIZE	
21043	1/4(1/8) x 1/8	----
21046	3/8(1/4) x 1/4	----
21049	1/2(3/8) x 3/8	----

1066 966 26 668

BULKHEAD UNION

29MBHS

TUBE O.D. (TUBE I.D.)

PART #	SIZE	
21082	1/4(1/8)	----
21083	3/8(1/4)	----
21084	1/2(3/8)	----

1074

UNION ELBOW

1065
965

29BEMB

TUBE O.D (I.D.)

PART #	SIZE	
21095	1/4(1/8)	----
21097	3/8(1/4)	----
21099	1/2(3/8)	----

MALE 90° ELBOW

29MBE

TUBE O.D. (I.D.) X MALE PIPE

PART #	SIZE	
21109	1/8" x 1/4-28"	----
21111	1/4(1/8) x 1/16	----
21113	1/4(1/8) x 1/8	----
21115	1/4(1/8) x 1/4	----
21117	3/8(1/4) x 1/8	----
21119	3/8(1/4) x 1/4	----
21121	1/2(3/8) x 3/8	----

1069 969 229

FEMALE 90° ELBOW

29MBFE

TUBE O.D. (I.D.) X FEMALE PIPE

PART #	SIZE	
21133	1/4(1/8) x 1/8	----

1070 970 230

UNION TEE

29MBT

O.D. (I.D.) X O.D. (I.D.) X O.D. (I.D.)

PART #	SIZE	
21151	1/4(1/8)	----
21153	3/8(1/4)X 3/8(1/4) X1/4(1/8)	----
21155	3/8(1/4)	----
21159	1/2(3/8)X1/2(3/8) X3/8(1/4)	----
21161	1/2(3/8)	----

1064 964 224

MALE BRANCH TEE

3

29MRMT

1 2

O.D. (I.D.) X O.D. (I.D.) X MALE PIPE

PART #	SIZE	
21193	1/4(1/8) x 1/4(1/8) x 1/8	----
21195	3/8(1/4) x 3/8(1/4) x 1/8	----

1072 972 232

FEMALE BRANCH TEE

3

29MBPT

1 2

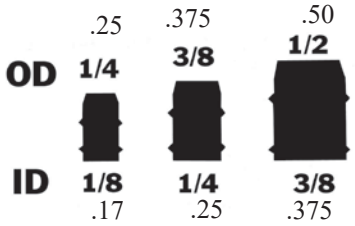
O.D. (I.D.) X O.D. (I.D.) X FEMALE PIPE

PART #	SIZE	
21207	1/4(1/8) x 1/4(1/8) x 1/8	----

1077 978

TWO BARB FITTINGS

More Sizes Available - Please Ask!



MALE ADAPTER PIPE

TUBE O.D. (I.D.) X MALE PIPE

PART #	SIZE	
32150	1/4(1/8) x 1/8	----
32151	1/4(1/8) x 1/4	----
32153	3/8(1/4) x 1/4	----

28

UNION TEE

PART #	TUBE O.D. (I.D.)	
32159	1/4(1/8 ID)	----
32160	3/8(1/4 ID)	----

90° ELBOW

PART #	TUBE O.D. (I.D.)	
32170	1/4(1/8 ID)	----
32171	3/8(1/4 ID)	----

225

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

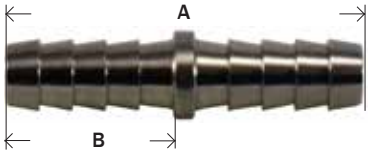
BARSTOCK/ CAST SS HOSE BARB

BRASS FITTINGS

316 STAINLESS STEEL MACHINED RIGID MALE ADAPTER

PART #	HOSE I.D. X NPT	
32001SS	1/8" x 1/8"	----
32002SS	3/16" x 1/8"	----
32003SS	3/16" x 1/4"	----
32004SS	1/4" x 1/8"	----
32005SS	1/4" x 1/4"	----
32006SS	1/4" x 3/8"	----
32008SS	5/16" x 1/8"	----
32009SS	5/16" x 1/4"	----
32010SS	5/16" x 3/8"	----
32011SS	3/8" x 1/8"	----
32012SS	3/8" x 1/4"	----
32013SS	3/8" x 3/8"	----
32014SS	3/8" x 1/2"	----
32015SS	1/2" x 1/4"	----
32016SS	1/2" x 3/8"	----
32017SS	1/2" x 1/2"	----
32018SS	1/2" x 3/4"	----
32019SS	5/8" x 3/8"	----
32020SS	5/8" x 1/2"	----
32021SS	5/8" x 3/4"	----
32022SS	3/4" x 1/2"	----
32023SS	3/4" x 3/4"	----
32024SS	1" x 3/4"	----

316 STAINLESS STEEL SPLICER



PART #	HOSE I.D. X HOSE I.D.	A	B	
32091SS	1/8"			----
32093SS	1/4"	2.03	0.97	----
32094SS	5/16"			----
32095SS	3/8"	2.06	0.97	----
32096SS	1/2"	2.06	0.97	----
32098SS	3/4"	2.50	1.19	----

316 STAINLESS STEEL BARB ELBOW

PART #	HOSE I.D. X NPT	
32038SS	1/4 x 1/8	----
32039SS	1/4 x 1/4	----
32041SS	3/8 x 1/4	----
32042SS	3/8 x 3/8	----
32043SS	1/2" x 3/8"	----
32311SS	1/2 x 1/2	----
32314SS	3/4" x 3/4"	----

304 STAINLESS STEEL HOSE NIPPLES

▪ Cast

PART #	HOSE I.D. X MALE PIPE	
73951	1/4"	----
73952	3/8"	----
73953	1/2"	----
73954	3/4"	----
73955	1"	----
73956	1-1/4"	----
73957	1-1/2"	----
73958	2"	----
73959	2-1/2"	----
73960	3"	----

304 STAINLESS STEEL REDUCING HOSE NIPPLES

▪ Cast

PART #	HOSE I.D. X MALE PIPE	
73970	1/4" X 1/8"	----
73971	3/8" X 1/4"	----
73972	1/2" X 3/8"	----
73973	1/2" X 1/4"	----
73974	3/4" X 1/2"	----
73975	1" X 3/4"	----
73976	1" X 1/2"	----
73977	1-1/4" X 1"	----
73979	1-1/2" X 1-1/4"	----
73980	1-1/2" X 1"	----
73981	2" X 1-1/2"	----
73982	2" X 1-1/4"	----

316 STAINLESS STEEL HOSE NIPPLES

▪ Cast

PART #	HOSE I.D. X MALE PIPE	
973951	1/4"	----
973952	3/8"	----
973953	1/2"	----
973954	3/4"	----
973955	1"	----
973956	1-1/4"	----
973957	1-1/2"	----
973958	2"	----
973959	2-1/2"	----
973990	3"	----
973991	4"	----

▪ See King nipples on page 312

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BEVERAGE FITTINGS
BRASS FITTINGS

BARB TO MALE PIPE ADAPTER

PART #	SIZE	
34587	1/4" x 1/8"	----
34588	1/4" x 1/4"	----
34589	1/4" x 3/8"	----
34590	3/8" x 1/8"	----
34591	3/8" x 1/4"	----
34592	3/8" x 3/8"	----
34595	3/8" x 1/2"	----
34597	1/2" x 3/4"	----

BARB TO MALE FLARE ADAPTER

HOSE ID X 45° FLARE

PART #	SIZE	
34579	1/4" x 1/4"	----
34586	1/4" x 5/16"	----
34584	1/4" x 3/8"	----
34580	1/4" x 1/2-16"	----
34583	3/8" x 1/4"	----
34585	3/8" x 3/8"	----
34581	3/8" x 1/2-16"	----

FEMALE FLARE SWIVEL SETS

PART #	SIZE	
34501	1/4" x 1/4"	----
34502	5/16" x 1/4"	----
34504	3/8" x 3/8"	----

ONE PIECE SWIVEL BARB X FE.

PART #	SIZE	
34510	3/8" x 1/4"	----

HOSE SPLICER (STRAIGHT)

ID HOSE

PART #	SIZE	
34532	3/16"	----
34533	1/4"	----
34534	1/4" x 3/16"	----
34536	5/16"	----
34537	5/16" x 1/4"	----
34535	3/8"	----
34538	3/8" x 3/16"	----
34543	3/8" x 1/4"	----
34539	3/8" x 5/16"	----
34540	1/2" x 3/8"	----

THINWALL SPLICERS

PART #	SIZE	
34533T	1/4"	----
34535T	3/8"	----
34541T	1/2"	----
34540T	1/2" x 3/8"	----
34543T	3/8" x 1/4"	----

PLUG

PART #	SIZE	
34572	1/4"	----
34574	3/8"	----

THINWALL

PART #	SIZE	
34572T	1/4"	----
34574T	3/8"	----

BARB X COMPRESSION

PART #	SIZE	
34625	1/4" x 3/8"	----
34626	3/8" x 3/8"	----

PLATED BRASS SPLICERS

ID SIZES
VINYL TUBE ID/ PL. TUBE ID

PART #	SIZE	
34725	3/16"/1/4"	----
34726	1/4" x 3/16"/ 5/16" x 1/4"	----
34728	5/16"/3/8"	----
34727	5/16" x 3/16"/ 3/8"/1/4"	----

TAILPIECES

SS BARB X SWIVEL SHANK

PART #	SIZE	
34711	-/ 3/16"	----
34713	3/16"/ 1/4"	----
34715	1/4"/ 5/16"	----
34716	3/8"/-	----
34717	1/2"/ 3/8"	----

N/P BRASS

PART #	SIZE	
34710	3/16"/1/4"	----
34712	1/4"/5/16"	----
34714	5/16"/3/8"	----
34716	3/8"/-	----
34718	1/2"/-	----

#304 SS 90° ELBOW

PART #	SIZE	
34720	3/16"/-	----
34721	1/4"/1/4"	----
34722	5/16"/5/16"	----
34723	3/8"/3/8"	----
34724	1/2"/1/2"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BEVERAGE FITTINGS
BRASS FITTINGS

90° SWIVEL ELBOW

HOSE ID X FEMALE 45°

PART #	SIZE	
34525	1/4" x 1/4"	----
34526	3/8" x 1/4"	----
34529	3/8" x 3/8"	----
34531	1/2" x 1/2"	----

BARB TO SWIVEL ELBOW

HOSE ID X FEMALE 45° FLARE

PART #	SIZE	
34600	1/4" x 1/4"	----
34601	3/8" x 1/4"	----

MALE ELBOWS

HOSE ID X MALE NPTF

PART #	SIZE	
34610	1/4" x 1/8"	----
34611	3/8" x 1/4"	----
34612	3/8" x 3/8"	----
34613	1/2" x 1/2"	----

FEMALE ADAPTERS

BARB X FEMALE PIPE

PART #	SIZE	
34661	1/4"	----
34658	1/2"	----

U-BEND

PART #	SIZE	A	
34633	3/8"	2	----

THINWALL U-BEND

Part #	Size	A	
34633T	3/8"	1-1/2	----

U-BEND W/MANIFOLD

THINWALL

PART #	SIZE	
34621T	1/4"	----
34622T	3/8"	----

CROSS

PART #	SIZE	
34635T	1/4"	----
34638T	3/8"	----

Y TEES

PART #	SIZE	A	
34650T	1/4"	1-1/8	----
34652T	3/8"	1-1/4	----

BARB HOSE TEES

ID HOSE

PART #	SIZE	
34561	1/8"	----
34562	1/4"	----
34565	5/16"	----
34563	3/8"	----

REDUCING TEES

PART #	1&2	3	
34567	1/4"	3/8"	----
34568	3/8"	1/4"	----

THINWALL TEES

PART #	SIZE	
34562T	1/4"	----
34565T	5/16"	----
34563T	3/8"	----
34564T	1/2"	----

REDUCING THINWALL TEES

PART #	1&2	3	
34567T	1/4"	3/8"	----
34568T	3/8"	1/4"	----

90° BARB SPLICER

ID HOSE

PART #	SIZE	
34551	1/4"	----
34550	5/16"	----
34552	3/8"	----

THINWALL 90° BARB SPLICERS

PART #	SIZE	
34551T	1/4"	----
34552T	3/8"	----
34553T	1/2"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH ON BARB FITTINGS

Typical Application: Low Pressure Air, Fuel, Lube, and Oil Lines
▪ Pressure determined by tube material and hardness. Our parts have been tested to max 150 PSI.
Advantages: Easy assembly. No clamps needed!!
▪ **Assembly Instructions**
1- Lubricate insert.
2- Hold hose at angle as shown & push on and up over first barb.
3- Continue to push straight on until hose is seated under protective plastic cap. Keep hands back from hose end area so that hose can expand.

▪ **Disassembling Instructions**
1- Split hose. Do not cut completely through hose. Sealing edge of barb could be damaged.
2- Bend hose and remove with a quick pull.

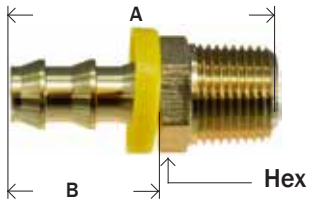
See lead free section for lead free push-on barb fittings. **Stainless steel available at the end of this section.**

Actual Profile of Push On Barbs

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH-ON FITTINGS
BRASS FITTINGS

MALE ADAPTER



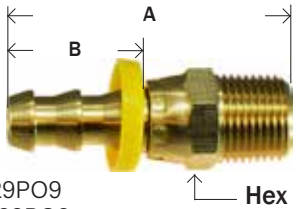
29PO1
129PO1

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	
30200 *	1/4" x 1/8"	1.43	0.87	0.50	0.04	----
30201 *	1/4" x 1/4"	1.66	0.87	0.56	0.06	----
30211	1/4" x 3/8"	1.66	0.87	0.68	0.06	----
30208	1/4" x 1/2"	1.83	0.88	0.88	0.10	----
30212	5/16" x 1/8"	1.42	0.77	0.43	0.04	----
30213	5/16" x 1/4"	1.66	0.87	0.56	0.06	----
30202	3/8" x 1/8"	1.53	0.97	0.50	0.04	----
30203 *	3/8" x 1/4"	1.69	0.89	0.56	0.07	----
30204 *	3/8" x 3/8"	1.76	0.97	0.68	0.08	----
30205	3/8" x 1/2"	1.97	0.97	0.87	0.10	----
30392	3/8" x 3/4"	1.97	0.92	1.06	0.16	----
30216	1/2" x 1/4"	1.76	0.97	0.68	0.08	----
30206 *	1/2" x 3/8"	1.76	0.97	0.68	0.09	----
30207 *	1/2" x 1/2"	1.97	0.97	0.87	0.14	----
30217	1/2" x 3/4"	1.97	0.97	1.06	0.16	----
30218	1/2" x 1"	2.29	0.97	1.37	0.34	----
30219	5/8" x 3/8"	2.34	1.50	0.75	0.12	----
30209	5/8" x 1/2"	2.45	1.45	0.87	0.16	----
30214	5/8" x 3/4"	2.45	1.45	1.06	0.18	----
30215 *	3/4" x 1/2"	2.45	1.45	0.87	0.21	----
30210 *	3/4" x 3/4"	2.45	1.45	1.06	0.20	----
30238	1" x 3/4"	2.93	1.50	1.25	0.43	----
30239	1" x 1"	3.11	1.50	1.37	0.49	----

- See page 161 for lead free
- See page 36 for Stainless

301 P990A HLM 100B-1 KA-MB 272 29PO 725 625 BPN 941 30182

MALE SWIVEL

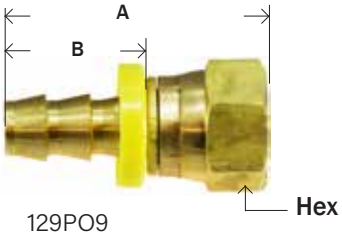


29PO9
129PO2

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	
30422	1/4" x 1/8"	2.07	0.87	0.56	0.06	----
30385	1/4" x 1/4"	2.02	0.87	0.56	0.06	----
30423	3/8" x 1/8"	2.12	0.97	0.56	0.07	----
30386	3/8" x 1/4"	2.12	0.97	0.56	0.08	----
30387	3/8" x 3/8"	2.12	0.97	0.68	0.08	----
30388	1/2" x 3/8"	2.12	0.97	0.68	0.10	----
30389	1/2" x 1/2"	2.33	0.97	0.87	0.14	----
30424	5/8" x 1/2	2.80	1.45	0.88	0.18	----
30390	3/4" x 3/4"	2.80	1.45	1.06	0.24	----

921 HMS 285 31382

FEMALE GASKET SEAL SWIVEL - NPSM



129PO9

PART #	HOSE I.D. X GASKET SWIVEL (NPSM)	A	B	HEX	APPROX. WT. LBS.	
30359	1/4" x 1/8"	1.39	0.77	0.50	0.03	----
30358	1/4" x 1/4"	1.47	0.82	0.68	0.06	----
30360	3/8" x 1/4"	1.61	1.00	0.68	0.06	----
30361	3/8" x 3/8"	1.77	0.97	0.81	0.08	----
30362	3/8" x 1/2"	1.80	0.92	0.93	0.09	----
30363	1/2" x 1/2"	1.90	1.02	0.93	0.11	----
30366	3/4" x 3/4"	2.36	1.55	1.18	0.32	----

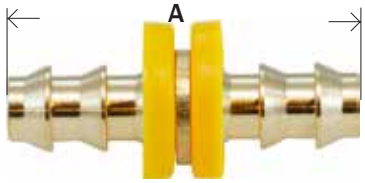
- Not recommend for water due to fiber gasket - for air service only.

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH ON HOSE BARB
BRASS FITTINGS

HOSE SPLICER

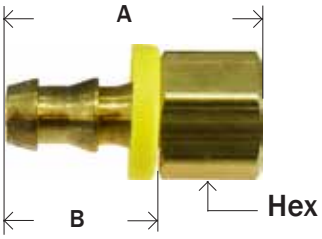


29P08
129PO14

PART #	HOSE I.D.	A	APPROX. WT. LBS.	
30300	1/4"	1.87	0.04	----
30305	5/16"	1.80	0.04	----
30301	3/8"	2.00	0.06	----
30302	1/2"	2.01	0.08	----
30303	5/8"	3.03	0.14	----
30304	3/4"	3.03	0.14	----
30306	1"	3.21	0.28	----

BPM 696 29SPO 296 915 729 100B-Y KA-RM MHL 296 38282

RIGID FEMALE ADAPTER

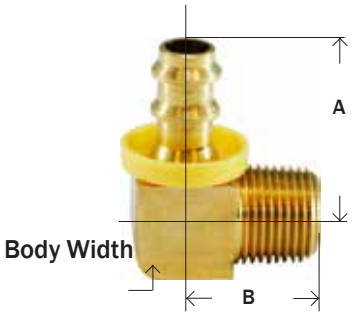


29PO2
129PO7

PART #	HOSE I.D. X FEMALE NPTF	A	B	HEX	APPROX. WT. LBS.	
30220	1/4" x 1/8"	1.35	0.87	0.50	0.02	----
30221	1/4" x 1/4"	1.51	0.87	0.62	0.06	----
30384	1/4" x 3/8"	1.51	0.77	0.75	0.06	----
30391	5/16" x 1/8"	1.32	0.77	0.50	0.03	----
30222	5/16" x 1/4"	1.51	0.87	0.62	0.06	----
30393	3/8" x 1/8"	1.47	0.92	0.56	0.06	----
30224	3/8" x 1/4"	1.61	0.97	0.62	0.06	----
30225	3/8" x 3/8"	1.63	0.97	0.75	0.06	----
30394	3/8' x 1/2"	1.66	0.92	0.93	0.12	----
30397	3/8" x 3/4"	1.97	0.97	1.18	0.20	----
30223	1/2" x 1/4"	1.76	1.02	0.68	0.08	----
30226	1/2" x 3/8"	1.63	0.97	0.75	0.08	----
30227	1/2" x 1/2"	1.77	0.97	0.93	0.14	----
30396	1/2" x 3/4"	2.07	1.02	1.18	0.20	----
30398	5/8" x 3/8"	2.24	1.55	0.75	0.10	----
30229	5/8" x 1/2"	2.24	1.48	0.93	0.11	----
30403	5/8" x 3/4"	2.26	1.44	1.19	0.20	
30399	3/4" x 1/2"	2.24	1.50	0.93	0.14	----
30395	3/4" x 3/4"	2.55	1.50	1.18	0.24	----
30400	1" x 3/4"	2.55	1.55	1.18	0.25	----
30402	1" x 1"	2.68	1.55	1.43	0.37	----

30282 29FPO HLF 626 274 726 940

MALE ELBOW



29POE
129PO20

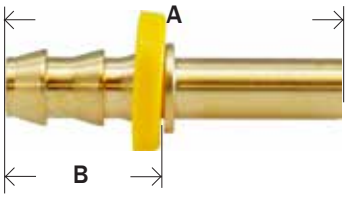
PART #	HOSE I.D. X MALE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	
30372	1/4" x 1/8"	0.98	0.75	0.50	0.04	----
30373	1/4" x 1/4"	1.04	0.95	0.56	0.06	----
30374	5/16" x 1/8"	1.02	0.94	0.50	0.06	----
30375	5/16" x 1/4"	1.09	0.94	0.56	0.08	----
30370	3/8" x 1/8"	1.11	0.75	0.50	0.10	----
30371	3/8" x 1/4"	1.13	0.90	0.56	0.10	----
30376	3/8" x 3/8"	1.21	0.92	0.70	0.12	----
30377	3/8" x 1/2"	1.30	1.19	0.87	0.22	----
30382	1/2" x 3/8"	1.32	1.02	0.70	0.13	----
30378	1/2" x 1/2"	1.50	1.19	0.87	0.22	----
30379	5/8" x 1/2"	1.98	1.19	0.87	0.26	----
30383	3/4" x 1/2"	2.15	1.24	0.87	0.25	----
30381	3/4" x 3/4"	2.07	1.28	1.06	0.34	----

100-C 29EPO 273

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH ON HOSE BARB
BRASS FITTINGS

RIGID TUBE ADAPTER

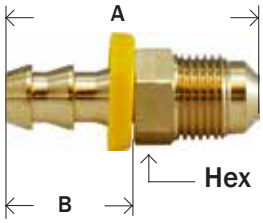


29PO1D
129PO15

PART #	HOSE I.D. X O.D TUBE	A	B	APPROX. WT. LBS.	
30290	1/4" x 3/16"	1.68	0.77	0.04	----
30291	1/4" x 1/4"	1.88	0.77	0.04	----
30292	1/4" x 5/16"	1.88	0.77	0.04	----
30293	5/16" x 5/16"	1.91	0.79	0.04	----
30294	3/8" x 3/8"	2.03	0.92	0.06	----
30426	3/8" x 1/2	1.81	0.97	0.04	----
30297	1/2" x 1/2"	2.13	1.02	0.06	----
30298	5/8" x 5/8"	2.61	1.50	0.10	----
30299	3/4" x 3/4"	2.61	1.50	0.25	----

294 100B-X KA-RL 303 732 694

MALE SAE FLARE ADAPTER

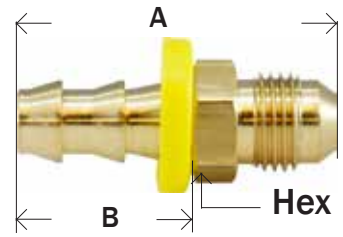


29PO3
129PO4

PART #	HOSE I.D. X 45° MALE FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	
30240	1/4" x 1/4"	7/16-20	1.45	0.75	0.43	0.04	----
30241	1/4" x 5/16"	1/2-20	1.59	0.84	0.50	0.04	----
30249	5/16" x 5/16"	1/2-20	1.60	0.80	0.50	0.06	----
30271	3/8" x 5/16"	1/2-20	1.64	0.86	0.50	0.08	----
30243	3/8" x 3/8"	5/8-18	1.83	0.92	0.62	0.08	----
30245	1/2" x 1/2"	3/4-16	1.98	1.02	0.875	0.10	----
30246	5/8" x 5/8"	7/8-14	2.73	1.50	0.87	0.19	----
30247	3/4" x 3/4"	1-1/16-14	2.98	1.50	1.06	0.32	----

100B-3 KA-MS 727 945 682 302 282

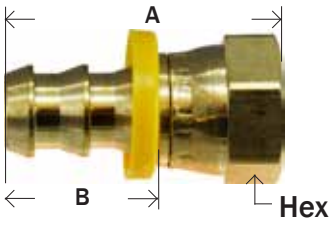
37° MALE JIC FLARE ADAPTER



29PO11
129PO6

PART #	HOSE I.D. X MALE JIC	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	
32900	1/4" x 1/4"	7/16-20	1.57	0.84	0.50	0.04	----
32901	1/4" x 5/16"	1/2-20	1.60	0.83	0.56	0.04	----
32906	1/4" x 3/8"	9/16-18	1.63	0.77	0.62	0.05	----
32902	3/8" x 3/8"	9/16-18	1.78	0.97	0.62	0.06	----
32903	1/2" x 1/2"	3/4-16	1.97	0.97	0.75	0.10	----
32907	5/8" x 5/8"	7/8-14	2.62	1.50	0.93	0.19	----
32905	3/4" x 3/4"	1-1/16-12	2.79	1.50	1.12	0.29	----

SAE/JIC DUAL 45°/37° FEMALE SWIVEL



29PO5
129PO10

PART #	HOSE I.D. X DUAL SEAT	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	
30230 *	1/4" x 1/4"	7/16-20	1.53	0.87	0.56	0.06	----
30231	1/4" x 5/16"	1/2-20	1.53	0.87	0.62	0.04	----
30232	5/16" x 5/16"	1/2-20	1.56	0.87	0.62	0.04	----
30427	3/8" x 5/16"	1/2-20	1.74	0.87	0.62	0.06	----
30233	3/8" x 1/2"	3/4-16	1.79	0.97	0.87	0.10	----
30234 *	1/2" x 1/2"	3/4-16	1.77	0.97	0.87	0.10	----
30235	1/2" x 5/8"	7/8-14	1.84	0.97	1.00	0.12	----
30236	5/8" x 1/2"	3/4-16	2.27	1.45	0.87	0.18	----
30237	5/8" x 5/8"	7/8-14	2.33	1.45	1.00	0.14	----
30428	3/4" x 5/8"	7/8-14	2.33	1.45	1.00	0.20	----

* See page 36 for stainless
* See page 161 for lead free

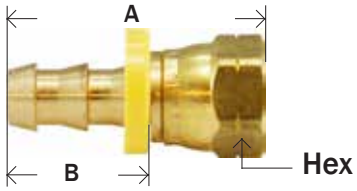
29FDS 287 HDF 309 735 690 P990-K 305 935/ 934

DIMENSION DATA CAN CHANGE WITHOUT NOTICE. PLEASE CHECK WHEN DIMENSIONS ARE CRITICAL.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH ON HOSE BARB
BRASS FITTINGS

45° SAE FLARE FEMALE SWIVEL

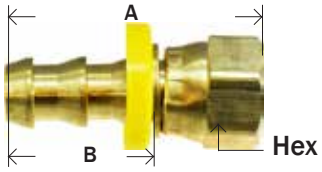


29P06
129PO14

PART #	HOSE I.D. X 45° FEMALE FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	
30250	1/4" x 1/4"	7/16-20	1.54	0.87	0.56	0.04	----
30251	1/4" x 5/16"	1/2-20	1.57	0.87	0.62	0.04	----
30253	1/4" x 3/8"	5/8-18	1.63	0.87	0.75	0.06	----
30254	5/16" x 5/16"	1/2-20	1.58	0.87	0.68	0.06	----
30260	5/16" x 3/8"	5/8-18	1.63	0.87	0.75	0.08	----
30252	3/8" x 3/8"	5/8-18	1.73	0.97	0.75	0.10	----
30257	3/8" x 1/2"	3/4-16	1.85	0.87	0.87	0.10	----
30261	1/2" x 3/8"	5/8-18	1.92	1.05	0.75	0.10	----
30255	1/2" x 1/2"	3/4-16	1.77	0.97	0.87	0.12	----
30258	5/8" x 5/8"	7/8-14	2.35	1.45	1.00	0.14	----
30259	3/4" x 3/4"	1-1/16-14	2.42	1.45	1.25	0.22	----

30882 728 P990-H 29AEPO 307 284 100S-4 KA-NS HSF 684 934

FEMALE 37° JIC FLARE SWIVEL



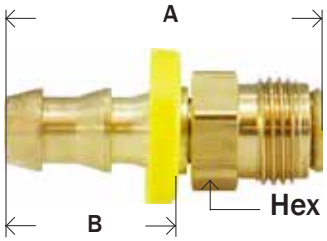
29P07
129PO12

* See page 36 for stainless

PART #	HOSE I.D. X FEMALE JIC	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	
30265	1/4" x 1/4"	7/16-20	1.54	0.87	0.56	0.04	----
30264	1/4" x 3/8"	9/16-18	1.57	0.87	0.68	0.06	----
30270	5/16" x 3/8"	9/16-18	1.60	0.82	0.68	0.06	----
30266 *	3/8" x 3/8"	9/16-18	1.70	0.97	0.68	0.08	----
30267	1/2" x 1/2"	3/4-16	1.78	0.97	0.87	0.10	----
30268	5/8" x 5/8"	7/8-14	2.33	1.45	1.00	0.14	----
30269 *	3/4" x 3/4"	1-1/16-12	2.40	1.45	1.25	0.22	----
30429	1" x 1"	1-5/16-12	2.60	1.45	1.50	0.39	----

JF 944/934 29J1CPO HJF 688 738 288 100B-6 308 P990-F 30682 KA-NJ

INVERTED FLARE MALE SWIVEL



29P016
129PO6

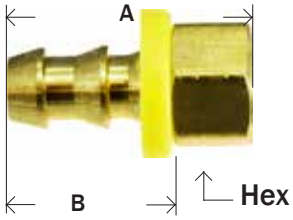
PART #	HOSE I.D. X MALE INV FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	
30275	1/4" x 3/16"	3/8-24	1.52	0.87	0.37	0.04	----
30276	1/4" x 1/4"	7/16-24	1.56	0.87	0.43	0.04	----
30277	1/4" x 5/16"	1/2-20	1.62	0.87	0.50	0.04	----
30280	5/16" x 5/16"	1/2-20	1.62	0.87	0.50	0.06	----
30283	5/16" x 3/8"	5/8-18	1.63	0.87	0.62	0.06	----
30284	3/8" x 5/16"	1/2-20	1.72	0.97	0.50	0.06	----
30279	3/8" x 3/8"	5/8-18	1.76	0.97	0.62	0.06	----
30282	1/2" x 1/2"	3/4-18	1.84	0.97	0.75	0.10	----
30286	5/8" x 5/8"	7/8-18	2.50	1.57	0.87	0.14	----

290 100B-B KA-MF 1MS 947

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH ON HOSE BARB
BRASS FITTINGS

INVERTED FLARE FEMALE ADAPTER

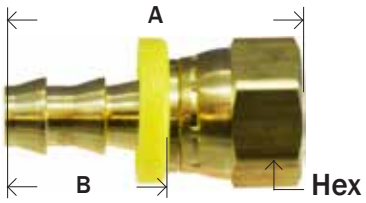


29P013
129PO13

PART #	HOSE I.D. X FEMALE INV FLARE	A	B	HEX	APPROX. WT. LBS.	
30310	1/4" x 3/16"	1.12	0.84	0.50	0.02	----
30311	1/4" x 1/4"	1.14	0.84	0.56	0.02	----
30312	1/4" x 5/16"	1.18	0.82	0.62	0.02	----
30316	5/16" x 5/16"	1.25	0.81	0.62	0.04	----
30313	3/8" x 5/16"	1.32	0.87	0.62	0.04	----
30314	3/8" x 3/8"	1.35	0.95	0.75	0.06	----
30315	1/2" x 1/2"	1.73	1.04	0.87	0.12	----

306 100B-A KA-NG 292 P990-J 736 692 946

FEMALE BALLSEAT SWIVEL

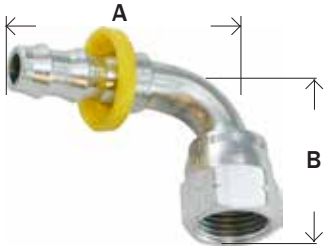


29P04
129PO8

PART #	HOSE I.D. X FEMALE NPSM	A	B	HEX	APPROX. WT. LBS.	
30340	1/4" X 1/8"	1.39	0.85	0.50	0.06	----
30341	1/4" X 1/4"	1.47	0.82	0.68	0.06	----
30342	1/4" x 3/8"	1.40	0.77	0.68	0.09	----
30343	3/8" X 1/4"	1.61	0.97	0.68	0.08	----
30344	3/8" X 3/8"	1.75	0.95	0.81	0.10	----
30430	3/8" x 1/2"	1.79	0.97	0.93	0.11	----
30346	1/2" X 1/2"	1.88	1.09	0.93	0.12	----
30345	1/2" x 3/4"	2.36	1.02	1.18	0.18	----
30349	3/4" X 3/4"	2.36	1.55	1.18	0.22	----

628 278 29SPO 731 NPSM

SAE/ JIC 37°/ 45° FEMALE SWIVEL 90° ZINC PLATED STEEL



PART #	HOSE I.D. X FEMALE 37°/45°	UNF THREAD	A	B	APPROX. WT. LBS.	
30480	1/4"	7/16-20	1.55	0.83	.064	----
30482	3/8"	9/16-18	1.85	0.91	.095	----
30483*	3/8"	5/8-18	1.98	0.85	.095	----
30484	1/2"	3/4-16	2.33	1.09	.171	----
30486	3/4"	1-1/16-12	3.26	1.81	.281	----

* SAE

When we ask for advice, we are usually looking for an accomplice

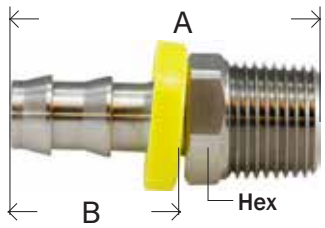
~ Marquis de la Grange

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STAINLESS STEEL PUSH ON 316 HOSE BARB

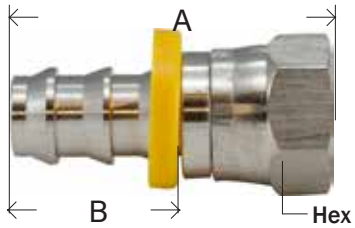
BRASS FITTINGS

316 STAINLESS STEEL MALE ADAPTERS



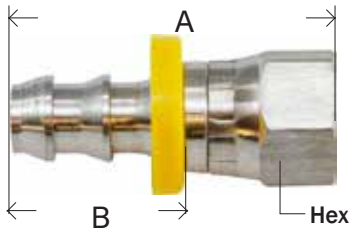
PART #	HOSE I.D. X NPT	A	B	HEX	APPROX. WT. LBS.	
30200SS	1/4" x 1/8"	1.42	0.77	0.44	0.027	----
30201SS	1/4" x 1/4"	1.61	0.77	0.56	0.043	----
30203SS	3/8" x 1/4"	1.76	0.92	0.56	0.053	----
30204SS	3/8" x 3/8"	1.76	0.92	0.69	0.067	----
30206SS	1/2" x 3/8"	1.86	1.02	0.69	0.071	----
30207SS	1/2" x 1/2"	2.07	1.02	0.88	0.119	----
30215SS	3/4" x 1/2"	2.55	1.50	0.88	0.20	----
30210SS	3/4" x 3/4"	2.55	1.50	1.06	0.194	----

316 STAINLESS STEEL SAE/ JIC 45°/ 37° FEMALE SWIVEL



PART #	HOSE I.D. X FEMALE 45°/37°	A	B	HEX	APPROX. WT. LBS.	
30230SS	1/4" x 1/4"	1.48	0.74	0.56	0.023	----
30234SS	1/2" x 1/2"	1.93	1.03	0.88	0.04	----

316 STAINLESS STEEL FEMALE 37° JIC FLARE SWIVEL



PART #	HOSE I.D. X FEMALE 37°	A	B	HEX	APPROX. WT. LBS.	
30266SS	3/8" x 3/8"	1.75	.92	0.68	0.065	----
30269SS	3/4" x 3/4"	2.53	1.50	1.25	0.259	----

If opportunity doesn't knock, build a door.

- Milton Berle

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GARDEN HOSE FITTINGS

▪ **Temperature and Working Pressure Ranges**

From +35^{0}F to +100^{0}F at 75 PSI maximum or the recommended working pressure of the garden hose. (Not to exceed 150 PSI.)

Note: All female connector ends should have a rubber washer inserted prior to usage.

FGH = Female Garden Hose threads
MGH = Male Garden Hose threads
Male garden hose threads are all 3/4" with an outside diameter of 1.0625 and 11-1/2" threads per inch.

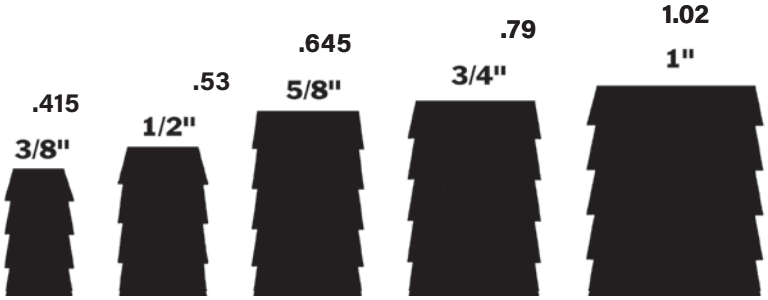
Male Garden Hose Profile

See Plastic section for Plastic Garden Hose Fittings

See page 162 for lead free Garden Hose

Washers included are #30150B black rubber washers.

Actual Profile of Garden Hose Barbs



WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STAINLESS STEEL PUSH ON 316 HOSE BARB
BRASS FITTINGS

SWIVEL - MGH X FGH

▪WASHER INCLUDED

Internal Hex

PART #	MGH X FGH	A	HEX	APPROX. WT. LBS.	
30000**	3/4" x 3/4"	1.03	0.50*	0.26	----

* Internal Hex
* Not a live swivel
** available in swivel crimp style

SWIVEL - FGH X FGH

▪WASHER INCLUDED

30-011

30-012

PART #	FGH X FGH	A	HEX	APPROX. WT. LBS.	
30011	3/4" x 3/4"	1.03	1.18 O.D.	0.24	----
30012	No Swivel	1.08	1.19	0.24	----

HUS 91 203W GSU 101GHSV 22AS 506 FS66

SWIVEL - FGH X FEMALE PIPE

▪WASHER INCLUDED

PART #	FGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
30001	3/4" x 1/2"	1.20	1.00	0.11	----
30006	3/4" x 3/4"	1.11	1.12	0.11	----

S1 HSU11 91Z 197S 98GHSV 5AS 21517 502 FS65

EVAPORATIVE COOLER FITTINGS

50-016

30-013

30-020

PART #	SIZE	
50016	MGH x 1/2" FIP	----
30013	1/2 MIP x 1/2 FIP x 1/8	----
30019	3/4 MIP x 3/4 FIP x 1/8	----
30020	MGH x FGH x 1/8	----

RIGID - FGH X FEMALE PIPE

▪WASHER INCLUDED

30-017

PART #	FGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
30016	3/4" x 1/8"	1.02	1.18	0.08	----
30017	3/4" x 1/4"	0.65	1.12	0.07	----
30018	3/4" x 3/8"	1.19	1.18	0.11	----

95GH 501

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GARDEN HOSE
BRASS FITTINGS

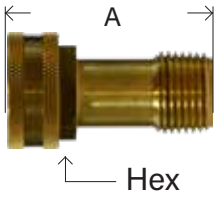
RIGID - FGH X FEMALE PIPE

PART #	FGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
30078	3/4" x 1/2"	1.06	1.18	0.10	----
30083	3/4" x 3/4"	1.06	1.18	0.12	----

FS67 198 HU11 21507 501 99GH 5A H15PP

SWIVEL - FGH X MALE PIPE

·WASHER INCLUDED

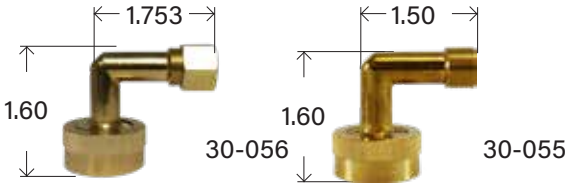


PART #	FGH X MALE NPTF	A	HEX	APPROX. WT. LBS.	
30047	3/4" x 1/4"	2.04	0.75	0.13	----
30048	3/4" x 3/8"	2.06	0.75	0.14	----
30049	3/4" x 1/2"	2.06	0.87	0.18	----

504 89GH W1 62H4 88GH W1

3/8" COMP 3/4" FGH DISHWASHER 90° ELBOW

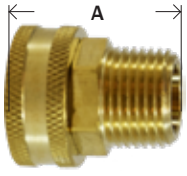
· WASHER INCLUDED



PART #	3/4 FEMALE GARDEN HOSE THREAD X 3/8 COMPRESSION	
30055	3/4" x 3/8" Body Only	----
30056	3/4" x 3/8" w/ nut & sleeve	----

SWIVEL - FGH X MALE PIPE

· WASHER INCLUDED

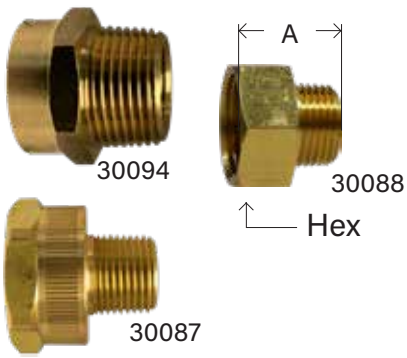


* Crimp style

PART #	FGH X MALE NPTF	A	HEX	APPROX. WT. LBS.	
30181*	3/4" x 1/4"	1.43	1.18	0.13	----
30184*	3/4" x 3/8"	1.43	1.18	0.15	----
30183	3/4" x 1/2"	1.32	0.81	0.11	----
30182*	3/4" x 3/4"	1.43	1.18	0.14	----

RIGID - FGH X MALE PIPE

· WASHER INCLUDED



PART #	FGH X MALE NPTF	A	HEX	APPROX. WT. LBS.	
30087	3/4" x 3/8"	1.37	1.18	0.11	----
30088	3/4" x 1/2"	1.06	1.18	0.09	----
30088S	3/4" x 1/2"(1/2"SWT)				
30093	3/4" x 3/4"	1.06	1.18	0.11	----
30094	3/4" x 3/4"(1/2" FIP)	1.17	1.18	0.11	----
30093L*	3/4" x 3/4"	1.22	1.18	0.14	----

* Long pattern
** 1/2 Swt = 5/8 O.D.

21505 503 83GH 20A HU21 199 H7

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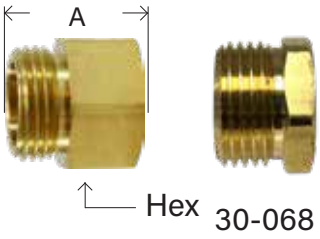
GARDEN HOSE
BRASS FITTINGS

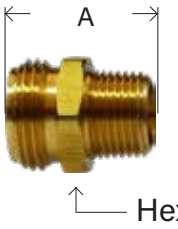
RIGID - MGH X FEMALE PIPE



PART #	MGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
30066	3/4" x 1/4"	1.10	1.06	0.09	----
30067	3/4" x 3/8"	1.09	1.06	0.12	----
30068	3/4" x 1/2"	0.81	1.06	0.10	----
30073	3/4" x 3/4"	1.12	1.18	0.10	----
30074	3/4" x 1"	1.36	1.37	0.19	
30075	1" x 1"	1.60	1.38	0.25	

197 18R HU12 H11PP 18A 507 18H 81GH 21503 MF67

RIGID - MGH X MALE PIPE

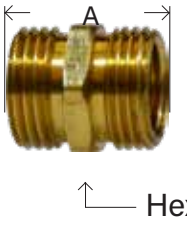


PART #	MGH X MALE NPTF	A	HEX	APPROX. WT. LBS.	
30054	3/4" x 1/4"	1.26	1.06	0.12	
30053	3/4" x 3/8"	1.25	1.06	0.10	----
30058	3/4" x 1/2"	1.31	1.06	0.12	----
30058S*	34" x 1/2"SWT				
30063**	3/4" x 3/4" x 1/2"	1.31	1.06	0.13	----
30063BE***	3/4" x 3/4"	1.31	1.06	0.15	----
30063S	3/4" x 3/4" Short	1.10	1.06	0.10	----
30064	3/4" x 1"	1.88	1.37	0.35	----
30065	1" x 1"	1.88	1.37	0.26	

No Tap
* (1/2 Swt = 5/8 O.D.)
** (Tapped 1/2 FIP)
*** (Tapped 1/2 FIP Both ends)

19R 196 H530 21501 508 HU22 514 71GH 19A

RIGID - MGH X MGH

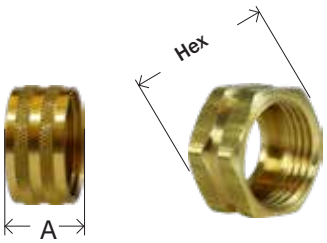


PART #	MGH X MGH	A	HEX	APPROX. WT. LBS.	
30098	3/4" x 3/4" (1/2" FIP)	1.22	1.06	0.13	----
30099	3/4" x 3/4"	1.38	1.06	0.15	----
30100*	1" x 3/4"	1.31	1.37	0.21	----
30101	1" x 1"	1.38	1.37	0.23	

* 1-11-1/2

21500 509 75GH 23A H8 19R

GARDEN HOSE NUT



PART #	SIZE	A	HEX	APPROX. WT. LBS.	
30021	Knurled	0.61	1.37 O.D.	0.08	----
30022	Hex Nut	0.62	1.18	0.08	----

Dimension data can change without notice. Please check when dimensions are critical.

94GH GHN1 HNR 21514

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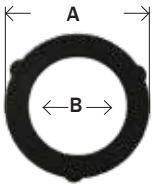
GARDEN HOSE
BRASS FITTINGS

GARDEN HOSE WASHERS



30-150

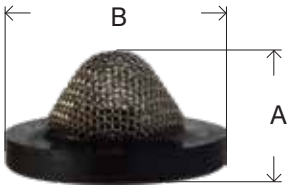
30-150R

PART #	SIZE	A	B	THICK-NESS	APPROX. WT. LBS.	
30150	black*	0.98	0.68	0.13	0.01	----
30150R	red	1.00	0.68	0.13	0.01	----
30150B	black rubber	1.00	0.68	0.13	0.01	----
30151	1"	1.27	0.86	0.16	0.01	----

GHW 901GH

* plasticized rubber

GARDEN HOSE FILTER WASHER

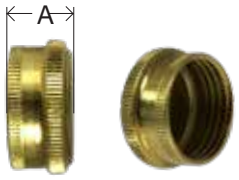


- 300 Series Stainless Steel Screen

PART #	SIZE	A	B	APPROX. WT. LBS.	
30180	30 Mesh	0.52	1.00	0.02	----
30180F	60 Mesh	0.52	1.00	0.02	----

LA662

GARDEN HOSE CAP



30-103

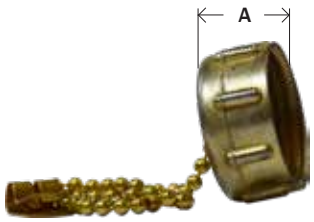
30-103B

PART #	SIZE	A	APPROX. WT. LBS.	
30103	3/4" Die Cast	0.58	0.04	----
30103B	3/4" Barstock	0.60	0.048	----

513 96GH GHN5 HC1 LA215 21518 200-W

- Garden hose washers sold seperately

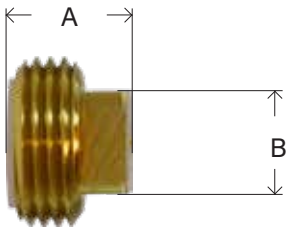
GARDEN HOSE CAP WITH CHAIN



PART #	SIZE	A	APPROX. WT. LBS.	
30142	3/4" w/ 12" Chain	0.58	0.06	----

* Zinc die cast

GARDEN HOSE PLUG



PART #	SIZE	A	B	APPROX. WT. LBS.	
30026	3/4"	0.69	0.61	0.12	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

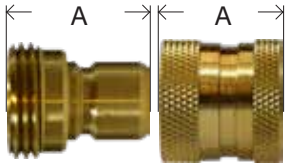
GARDEN HOSE
BRASS FITTINGS

HOSE MENDERS - SOLID BARB X BARB

PART #	HOSE I.D. X HOSE I.D.	A	B	O.D.	APPROX. WT. LBS.	
32096	1/2"	2.00	0.96	0.62	0.06	----
32097	5/8"	2.05	0.96	0.75	0.08	----
32098	3/4"	2.50	1.15	0.87	0.10	----
32099	1"	3.00	1.44	1.02	0.23	----

QUICK DISCONNECT GARDEN HOSE COUPLERS

·WASHER INCLUDED



30-452 30-451

- Unvalved construction allows maximum Flow
- 150 PSI
- NBR Seals

PART #	SIZE	A	APPROX. WT. LBS.	
30450	Complete	1.70	0.24	----
30451	Female end	1.14	0.12	----
30452	Male end	1.26	0.12	----
30149	Recessed Washer	1.02	0.01	

LA73C

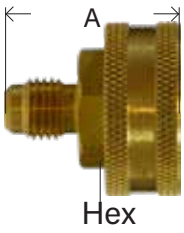
MALE FLARE X FGH RIGID

PART #	MALE FLARE X FGH	A	HEX	APPROX. WT. LBS.	
30123	3/8" x 3/4"	1.31	1.18	0.10	----
30128	1/2" x 3/4"	1.38	1.18	0.12	----
30133	5/8" x 3/4"	1.53	1.18	0.14	----

190 46WH HFU21

MALE FLARE X FGH SWIVEL

·WASHER INCLUDED



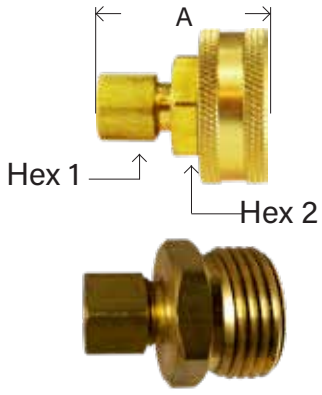
PART #	MALE FLARE X FGH	A	HEX	APPROX. WT. LBS.	
30052	1/4" x 3/4"	1.24	0.75	0.10	----
30138	3/8" x 3/4"	1.25	0.25*	0.12	----
30139	1/2" x 3/4"	1.49	0.81	0.14	----

* Internal Hex

50GHSV 51GHSV W1 68H 191

COMPRESSION X FGH

·WASHER INCLUDED



PART #	SWIVEL COMPRESSION X FGH	A	HEX 1	HEX 2	APPROX. WT. LBS.	
30050	1/4" x 3/4"	1.02	0.50	0.75	0.09	----
30051	3/8" x 3/4"	1.04	0.62	0.75	0.12	----

PART #	NO SWIVEL COMPRESSION X MGH	A	HEX 1	HEX 2	APPROX. WT. LBS.	
30135	1/4" x 3/4"	1.45	0.50	0.625	0.14	----
30136	3/8" x 3/4"	1.525	0.625	0.62	0.15	----
30137	1/2" x 3/4"	1.8	0.815	0.685	0.19	----

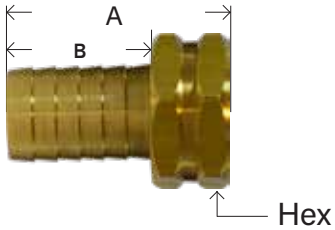
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GARDEN HOSE
BRASS FITTINGS

BARSTOCK BRASS GARDEN HOSE COUPLINGS

FEMALE SWIVEL ONLY

·WASHER INCLUDED



29FGH
329F

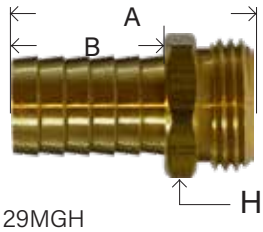
BRASS

PART #	HOSE BARB X FGH	A	B	HEX	APPROX. WT. LBS.	
30031	3/8″ x 3/4"	1.82	1.19	1.18	0.11	----
30032	1/2″ x 3/4"	1.82	1.19	1.18	0.12	----
30033	5/8″ x 3/4"	1.82	1.19	1.18	0.13	----
30034	3/4″ x 3/4"	1.82	1.19	1.18	0.15	----
30044	1" x 3/4"	2.10	1.19	1.18	0.18	----
30035	1″ x 1"	2.28	1.47	1.50	0.18	----

STAINLESS STEEL 316

30032SS	1/2" x 3/4"	1.82	1.19	1.18	0.12	----
30033SS	5/8" x 3/4"	1.82	1.19	1.18	0.13	----
30034SS	3/4" x 3/4"	1.82	1.19	1.18	0.15	----

MALE END ONLY



29MGH
329M

BRASS

PART #	HOSE BARB X MGH	A	B	HEX	APPROX. WT. LBS.	
30039	3/8″ x 3/4"	1.88	1.19	1.06	0.12	----
30040	1/2″ x 3/4"	1.88	1.19	1.06	0.12	----
30041	5/8″ x 3/4"	1.88	1.19	1.06	0.12	----
30042	3/4″ x 3/4"	1.88	1.19	1.06	0.13	----
30045	1" x 3/4"	1.94	1.19	1.06	0.21	----
30043	1″ x 1"	2.34	1.47	1.37	0.26	----

STAINLESS STEEL 316

30040SS	1/2" x 3/4"	1.88	1.19	1.06	0.12	----
30041SS	5/8" x 3/4"	1.88	1.19	1.06	0.12	----
30042SS	3/4" x 3/4"	1.88	1.19	1.06	0.13	----

GARDEN HOSE COUPLING

·WASHER INCLUDED

BRASS

PART #	HOSE BARB	
30025	3/8″	----
30027	1/2″	----
30028	5/8″	----
30029	3/4″	----
30046	1"(3/4" threads)	----
30030	1″	----

STAINLESS STEEL 316

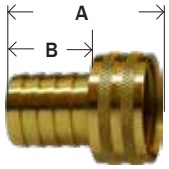
30027SS	1/2"	----
30028SS	5/8"	----
30029SS	3/4"	----

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GARDEN HOSE
BRASS FITTINGS

FEMALE SWIVEL ONLY - SHORT SHANK KNURLED NUT

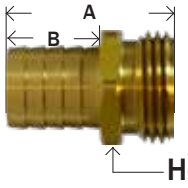


PART #	HOSE BARB X FGH	A	B	APPROX. WT. LBS.	
30464	1/4" x 3/4"	1.39	0.77	0.09	
30466	1/2" x 3/4"	1.50	0.88	0.08	----
30467	5/8" x 3/4"	1.50	0.88	0.09	----
30468	3/4" x 3/4"	1.47	0.88	0.10	----

FEMALE END ONLY - SHORT SHANK W/ HEX

PART #	HOSE X FGH	A	B	HEX	APPROX. WT. LBS.	
30453	1/2" x 3/4"	1.63	1.00	1.18	0.11	----
30454	5/8" x 3/4"	1.63	1.00	1.18	0.11	----
30455	3/4" x 3/4"	1.63	1.00	1.18	0.13	----

MALE END ONLY - SHORT SHANK



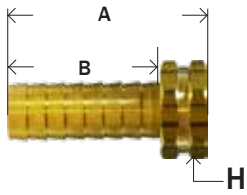
PART #	HOSE BARB X MGH	A	B	HEX	APPROX. WT. LBS.	
30469	1/4" x 3/4"	1.55	0.88	1.06	0.11	
30471	1/2" x 3/4"	1.55	0.88	1.06	0.11	----
30472	5/8" x 3/4"	1.56	0.88	1.06	0.12	----

GARDEN HOSE COUPLING SETS - SHORT SHANK W/ HEX NUT

PART #	HOSE BARB	
30457	1/2"	----
30458	5/8"	----
30459	3/4"	----

FEMALE SWIVEL ONLY - 2" SHANK

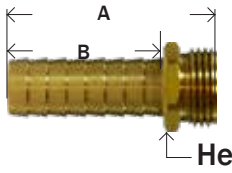
•WASHER INCLUDED



PART #	HOSE BARB X FGH	A	B	HEX	APPROX. WT. LBS.	
30505	1/2" x 3/4"	2.55	2.04	1.18	0.13	----
30506	5/8" x 3/4"	2.56	2.04	1.18	0.16	----
30507	3/4" x 3/4"	2.67	2.04	1.18	0.17	----
30508	1" x 1"	2.84	2.03	1.43	0.29	----

GHFL 594

MALE END ONLY - 2" SHANK



PART #	HOSE BARB X MGH	A	B	HEX	APPROX. WT. LBS.	
30510	1/2" x 3/4"	2.72	2.04	1.06	0.16	----
30511	5/8" x 3/4"	2.72	2.04	1.06	0.17	----
30512	3/4" x 3/4"	2.72	2.04	1.06	0.20	----
30513	1" x 1"	2.90	2.03	1.37	0.28	----

GHML 593

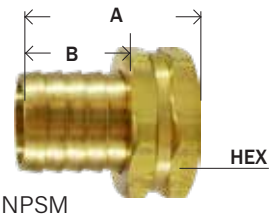
GARDEN HOSE COUPLING SETS - 2" SHANK

PART #	HOSE X FGH	
30516	1/2"	----
30517	5/8"	----
30518	3/4"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NPSM GARDEN HOSE
BRASS FITTINGS

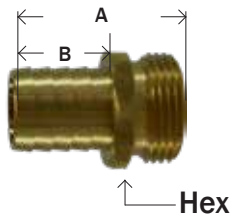
NPSM FEMALE SHORT SHANK



329NPSM

PART #	HOSE ID	NPSM THREAD	A	B	HEX	
30545	1/2	3/4"	1.45	0.88	1.18	----
30546	5/8	3/4"	1.47	0.88	1.18	----
30547	3/4	3/4"	1.47	0.88	1.18	----
30548	1	1"	1.50	1.00	1.50	----

NPSM MALE SHORT SHANK

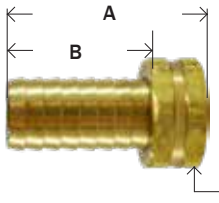


PART #	HOSE ID	NPSM THREAD	A	B	HEX	
30550	1/2	3/4"	1.56	0.88	1.06	----
30551	5/8	3/4"	1.56	0.88	1.06	----
30552	3/4	3/4"	1.56	0.88	1.06	----
30553	1	1"	1.77	0.98	1.30	----

NPSM SHORT SHANK SETS

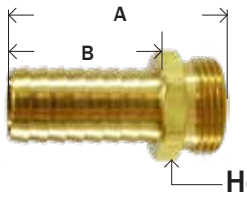
PART #	SIZE	
30540	1/2"	----
30541	5/8"	----
30542	3/4"	----
30543	1"	----

NPSM FEMALE LONG SHANK



PART #	HOSE ID	NPSM THREAD	A	B	HEX	
30565	1/2	1/2"	2.09	1.50	0.94	----
30566	5/8	3/4"	2.09	1.50	1.18	----
30567	3/4	3/4"	2.09	1.50	1.18	----
30568	1	1"	2.12	1.53	1.50	----

NPSM MALE LONG SHANK



PART #	HOSE ID	NPSM THREAD	A	B	HEX	
30570	1/2	1/2"	2.18	1.50	0.87	----
30571	5/8	3/4"	2.18	1.50	1.06	----
30572	3/4	3/4"	2.18	1.50	1.06	----
30573	1	1"	2.32	1.53	1.30	----

NPSM LONG SHANK SETS

PART #	SIZE	
30560	1/2"	----
30561	5/8"	----
30562	3/4"	----
30563	1"	----

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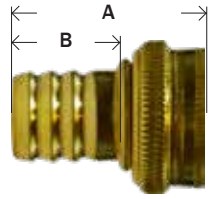
GARDEN HOSE VALVES/ FITTINGS

BRASS FITTINGS

WROUGHT BRASS

WROUGHT BRASS - FEMALE END ONLY

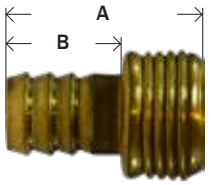
·WASHER INCLUDED



PART #	HOSE BARB X FGH	A	B	APPROX. WT. LBS.	
30526	5/8" x 3/4"	1.58	0.91	0.05	----
30527	3/4" x 3/4"	1.50	0.84	0.06	----

85L

WROUGHT BRASS COUPLINGS - MALE END ONLY



PART #	HOSE BARB X MGH	A	B	APPROX. WT. LBS.	
30530	1/2" x 3/4"	1.50	0.88	0.02	----

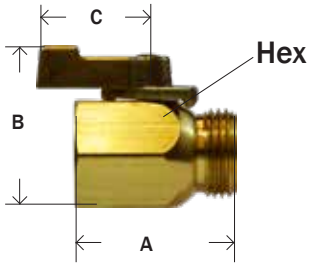
85M

GARDEN HOSE VALVES

ONE WAY BRASS BALL VALVE - FGH X MGH

▪ 500 PSI ▪ 180°F

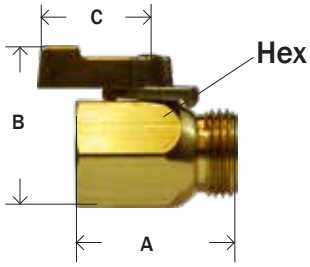
▪ WASHER INCLUDED



PART #	FGH X MGH	A	B	C	HEX	APPROX. WT. LBS.	
30161	3/4" x 3/4"	1.87	1.89	1.31	1.06	0.42	----

ONE WAY BRASS BALL VALVE - FEMALE PIPE X MGH

▪ 500 PSI ▪ 180°F



PART #	FEMALE NPTF X MGH	A	B	C	HEX	APPROX. WT. LBS.	
30162	3/4" x 3/4"	1.55	1.89	1.31	1.06	0.42	----

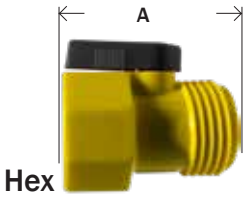
ZINC ALLOY HOSE SHUT-OFF W/ ONE LEVER

▪ WASHER INCLUDED

PART #	FGH X MGH	A	APPROX. WT. LBS.	
30631	3/4" x 3/4"	1.67	0.08	----

PLASTIC GARDEN HOSE VALVE ▪ CYCOLAC BODY & BALL

▪ WASHER INCLUDED



PART #	FGH X MGH	A	HEX	APPROX. WT. LBS.	
30163	3/4" x 3/4"	1.75	1.25	0.04	----

LA45OC

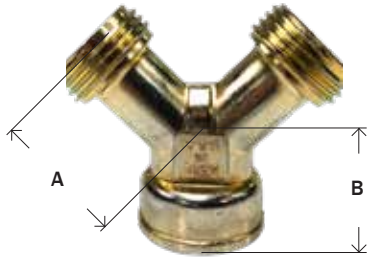
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GARDEN HOSE VALVES

BRASS FITTINGS

ZINC ALLOY HOSE - "Y" CONNECTOR

▪ WASHER INCLUDED



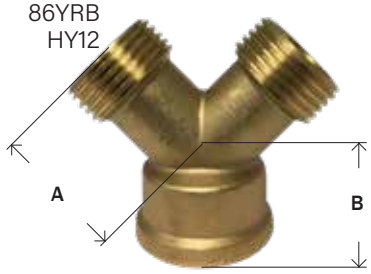
PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.	
30141	3/4"	1.70	0.57	1.5	

86Y 21A

CAST BRASS HOSE - "Y" CONNECTOR

▪ WASHER INCLUDED

86YRB
HY12

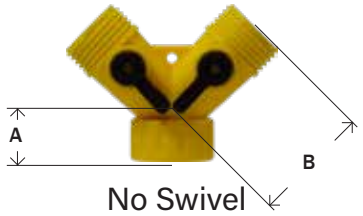


PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.	
30140	3/4"	1.40	0.67	0.22	----

86Y 21A

PLASTIC, NON-CORROSIVE, 2-WAY HOSE SHUT-OFF "Y"

▪ WASHER INCLUDED

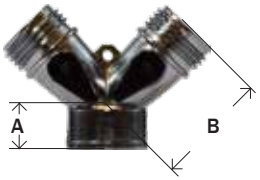


No Swivel

PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.	
30160	3/4"	0.74	1.87	0.08	----

"Y" SHAPE ZINC ALLOY CONNECTOR W/ TWO LEVERS

▪ WASHER INCLUDED



No Swivel

PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.	
30626	3/4"	0.60	1.66	0.10	----

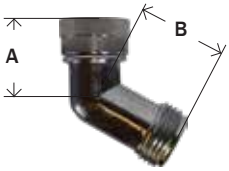
"Y" SHAPE BRASS CONNECTOR W/ 2-WAY SHUT OFF

▪ WASHER INCLUDED

▪ Brass Levers

PART #	SIZE	DESCRIPTION FGH SWIVEL X MGH(2)	APPROX. WT. LBS.	
30627	3/4"	3/4 Double Y valve, swivel inlet	0.56	----

ZINC ALLOY SWIVEL HOSE CONNECTOR



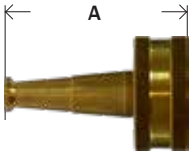
PART #	SIZE FGH X MGH	A	B	APPROX. WT. LBS.	
30629	3/4"	1.31	1.50	0.08	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GARDEN HOSE NOZZLES
BRASS FITTINGS

2-1/2" BRASS NOZZLE

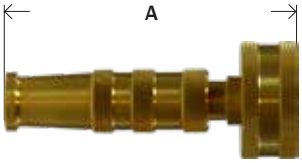
▪ WASHER INCLUDED



PART #	SIZE	A	APPROX. WT. LBS.	
30637	3/4"	2.50	0.14	----

3" CROSSED PATTERN BRASS NOZZLE

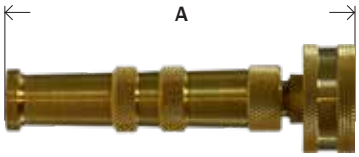
▪ WASHER INCLUDED



PART #	SIZE	A	APPROX. WT. LBS.	
30640	3/4"	2.89	0.25	----

4" CROSSED PATTERN BRASS NOZZLE

▪ WASHER INCLUDED



PART #	SIZE	A	APPROX. WT. LBS.	
30638	3/4"	3.80	0.50	----

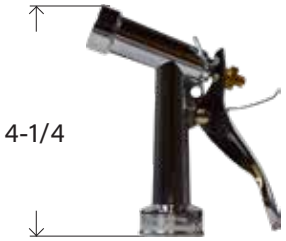
▪ WASHER INCLUDED

Adjustable Spray

Part #	Size		
30600	5-1/2"	Zinc Alloy spray nozzle with insulated handle soft grip and front thread protector	----

▪ WASHER INCLUDED

Lead Free



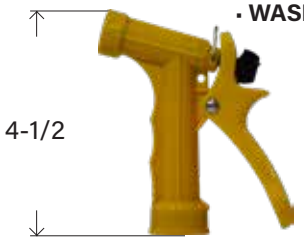
Part #	Size		
30620	4-1/4"	Zinc Alloy spray nozzle	----

▪ WASHER INCLUDED

Lead Free
Adjustable Spray

Part #	Size		
30609	5-1/4"	Zinc Alloy spray nozzle with easily adjustable brass head and plastic grip	----

▪ WASHER INCLUDED



Part #	Size		
30630	4-1/2"	Plastic spray nozzle	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE

Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4
Thread Size-B	5/16-24	3/8-24	7/16-20	1/2-20	5/8-18	11/16-16	3/4-16	7/8-14	1-1/16-14

▪Typical Application
LP and natural gas, flammable liquids, instrumentation, refrigeration, power steering, hydraulic and pneumatic systems.

▪Working Pressure Ranges
Temperature and type of tubing used are important factors. However, the following table is a good guide for proper selection. Temperature 73^{0}F with copper tubing:

PSI	Tube O.D. (in.)	Tube Wall (in.)
2800	1/8	.030
1900	3/16	.030
1400	1/4	.030
1200	5/16	.032
1000	3/8	.032
750	1/2	.032
650	5/8	.035
550	3/4	.035
450	7/8	.035

▪Vibration
Good resistance - use long nut when greater vibration resistance is required.

▪Temperature Range
-65^{0}F to +250^{0}F (-53^{0}C to +121^{0}C) range at maximum operating pressures.

▪Used With
Copper, brass, aluminum and steel hydraulic tubing that can be flared.

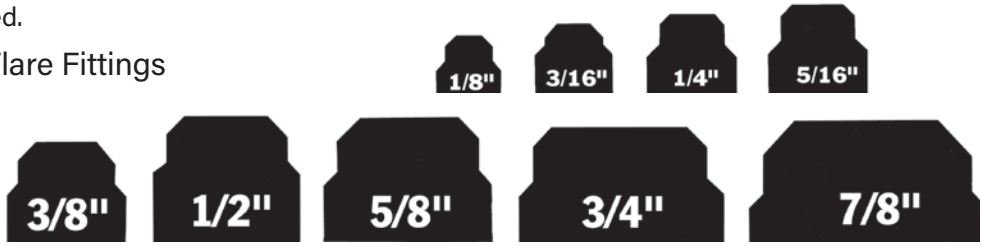
▪ Tolerance
+/- .03 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

▪Conformance
Meets specifications and standards of ASA, ASME, SAE and MS (Military standards).

Assembly Instructions
1- Cut tubing to desired length. Make sure all burrs are removed and ends are cut square.
2- Slide nut on tube. Threaded end "A" of nut must face out.
3- Flare end of tube with a 45^0 flaring tool.
a-Measure flare diameter.
b- Examine flare for excessive thin out.
4- Lubricate threads and assemble to fitting body. Nut should be turned hand tight.
5- Tighten assembly with wrench until a solid feeling is encountered. From that point, apply a one-sixth turn.
Note: Do not over-torque as it may damage the fitting or split the tubing at the flare.

▪ See Lead Free Flare Fittings page 163-164

Actual O.D. of Flare Fittings

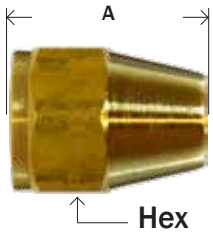


WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE
BRASS FITTINGS

SHORT ROD NUT

SAE# 010110

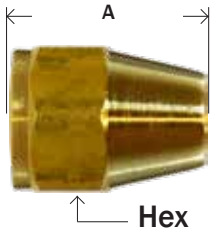


41S
411S

PART #	THREAD SIZE UNF	THREAD	A	HEX	APPROX. WT. LBS.	
10013	1/8″	5/16-24	0.50	0.37	0.01	----
10014	3/16″	3/8-24	0.62	0.43	0.02	----
10015	1/4″	7/16-20	0.75	0.56	0.03	----
10015L	1/4"	7/16-20	0.75	0.50	0.03	----
10016	5/16″	1/2-20	0.88	0.62	0.04	----
10017L	3/8″	5/8-18	0.77	0.75	0.05	----
10017	3/8″	5/8-18	1.00	0.75	0.04	----
10018	7/16″	11/16-16	1.06	0.81	0.06	----
10019L	1/2″	3/4-16	0.93	0.87	0.06	----
10019	1/2″	3/4-16	1.12	0.87	0.09	----
10020L	5/8″	7/8-14	1.08	1.00	0.10	----
10020	5/8″	7/8-14	1.31	1.06	0.15	----
10021	3/4″	1-1/16-14	1.50	1.25	0.24	----
10022	7/8″	1-1/4-12	1.62	1.50	0.36	----
10026	1″	1-3/8-12	1.81	1.62	0.44	----

20910 41FS 1110 N1 41FX 441S 'L'

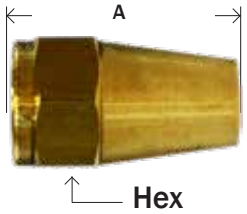
REDUCING SHORT ROD NUT



PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	
10023	3/8″ x 1/4″	0.74	0.81	0.06	----
10024	1/2″ x 3/8″	0.86	0.94	0.10	----
10025	5/8″ x 1/2″	0.99	1.06	0.12	----

LONG ROD NUT

SAE# 010111



41L

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	
10001	1/8″	0.75	0.37	0.01	----
10002	3/16″	0.81	0.43	0.02	----
10003L	1/4"	0.98	0.55	0.03	----
10003	1/4″	0.94	0.56	0.03	----
10004	5/16″	1.12	0.62	0.04	----
10005	3/8″	1.31	0.75	0.06	----
10006	1/2″	1.62	0.87	0.12	----
10007	5/8″	1.88	1.06	0.20	----
10008	3/4″	2.19	1.25	0.34	----

41FL N2 241 441 41

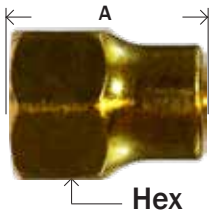
"L" means light pattern.

-These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LONG FORGED NUT

SAE# 010167



640L
641L

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	
10028	1/4″	0.94	0.62	0.05	----
10030	3/8″	1.06	0.81	0.08	----
10031	1/2″	1.19	0.94	0.12	----
10032	5/8″	1.44	1.06	0.26	----
10033	3/4″	1.75	1.31	0.35	----

41FF 39 N4 14FL 641

SHORT FORGED NUT

SAE# 010166

641S
6401S

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	
10038	3/16″	0.56	0.50	0.02	----
10039	1/4″	0.60	0.62	0.04	----
10040	5/16″	0.66	0.69	0.04	----
10041	3/8″	0.70	0.81	0.06	----
10042	1/2″	0.82	0.94	0.08	----
10043	5/8″	0.95	1.06	0.12	----
10044	3/4″	1.16	1.31	0.22	----
10045	7/8″	1.18	1.38	0.30	----

14FS 41FFS 40 641-S 1116 NS4

EXTRA HEAVY SHORT FORGED NUT

641SH
6401SXH

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	
10046	1/4″	0.63	0.75	0.04	----
10047	3/8″	0.72	0.88	0.06	----
10048	1/2″	0.88	1.00	0.08	----
10049	5/8″	0.98	1.12	0.12	----

NSA

FORGED REDUCING NUT

660
662S

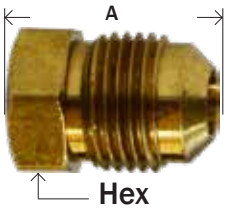
PART #	FEMALE FLARE X OD	A	HEX	APPROX. WT. LBS.	
10051	5/16″ x 1/4″	0.66	0.75	0.06	----
10052	3/8″ x 1/4″	0.72	0.81	0.06	----
10053	3/8″ x 5/16″	0.72	0.81	0.08	----
10054	1/2″ x 3/8″	0.81	0.94	0.08	----
10055	5/8″ x 3/8″	0.96	1.12	0.15	----
10056	5/8″ x 1/2″	0.97	1.06	0.12	----
10058	3/4″ x 5/8″	1.17	1.31	0.30	----

NSR4 14FS 41FRS 40R 662-S

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE
BRASS FITTINGS

FLARED PLUG



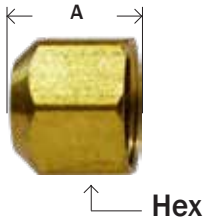
39
439

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	
10062	1/8"	0.53	0.34	0.01	
10063	3/16"	0.59	0.50	0.02	----
10064 *	1/4"	0.69	0.43	0.02	----
10065 *	5/16"	0.78	0.50	0.04	----
10066 *	3/8"	0.88	0.62	0.06	----
10067	1/2"	1.06	0.75	0.10	----
10068	5/8"	1.19	0.87	0.14	----
10069	3/4"	1.32	1.06	0.22	----

* Available in Stainless Steel. Add SS to the part#

58 639F PF 57 P2 2229 439

FLARED CAP



40
440

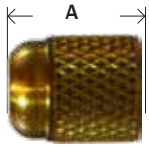
PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	
10073	1/8"	0.46	0.37	0.02	
10074	3/16"	0.47	0.50	0.02	----
10075 *	1/4"	0.48	0.50	0.02	----
10075EH	1/4"	0.54	0.57	0.02	
10076	5/16"	0.62	0.62	0.04	----
10077 *	3/8"	0.58	0.75	0.03	----
10078	1/2"	0.69	0.81	0.14	----
10079	5/8"	0.81	0.94	0.20	----
10080	3/4"	1.17	1.37	0.30	----

* Available in Stainless Steel. Add SS to the part#

640F 41FC 56 N5 2129 54 440

FINGER TIGHTENING CAP

- Neoprene
- **O-Ring Included**



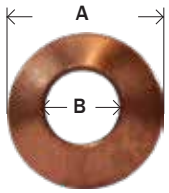
NFTS
FTC5

PART #	THREAD SIZE UNF	A	APPROX. WT. LBS.	
10081	1/4"	0.62	0.02	----
10082	3/8"	0.70	0.03	

NFT5

COPPER GASKET

SAE# 010113



463

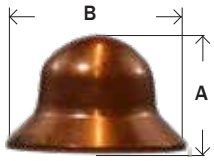
PART #	SIZE	A	B	APPROX. WT. LBS.	
10084	3/16"	0.31	0.12	0.01	----
10085	1/4"	0.36	0.19	0.01	----
10086	5/16"	0.42	0.22	0.01	----
10087	3/8"	0.55	0.28	0.01	----
10088	1/2"	0.66	0.41	0.01	----
10089	5/8"	0.77	0.50	0.01	----
10090	3/4"	0.95	0.62	0.01	----

B2 2GF 6251 FG 157 59 46

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COPPER BONNET

SAE# 010114

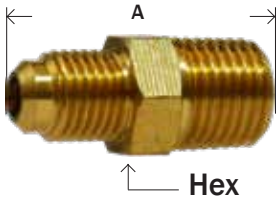


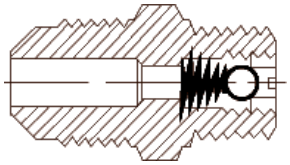
464

PART #	SIZE	A	B	APPROX. WT. LBS.	
10094	3/16″	0.16	0.31	0.01	----
10095	1/4″	0.22	0.36	0.01	----
10097	3/8″	0.34	0.55	0.01	----
10098	1/2″	0.41	0.66	0.01	----
10099	5/8″	0.44	0.77	0.01	----
10100	3/4″	0.56	0.95	0.01	----

B1 3GF 64C 57 156 FB 695 464

MALE BALL CHECK CONNECTOR





43
403

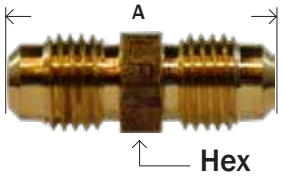
PART #	MALE FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	
10131*	1/4" x 1/8"	1.06	0.43		----
10256WC	1/4″ x 1/4″	1.24	0.6	0.04	----
10133*	3/8″ x 1/4″	1.31	0.62	0.08	----
10132	5/16" x 1/8"	1.14	0.50	0.04	

43A

* Note: Ball & Spring position may be reversed to change flow/check position. Min working pressure 3 PSI.

UNION

SAE# 010101



42
402

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	
10104	1/8″	0.91	0.31	0.02	----
10105	3/16″	1.06	0.37	0.02	----
10106L	1/4″	1.19	0.43	0.03	----
10106 *	1/4″	1.19	0.43	0.03	----
10106EH	1/4"	1.55	0.56	0.05	
10107	5/16″	1.34	0.50	0.05	----
10108L	3/8″	1.50	0.62	0.09	----
10108 *	3/8′	1.50	0.62	0.09	----
10109L	1/2″	1.67	0.75	0.12	----
10109	1/2″	1.81	0.75	0.14	----
10110L	5/8″	2.00	0.87	0.20	----
10110	5/8″	2.12	0.87	0.20	----
10111	3/4″	2.44	1.06	0.35	----
10112	7/8″	2.72	1.25	0.52	----

* Available in Stainless Steel. Add SS to the part#

42F U2

"L" means light pattern.

-These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

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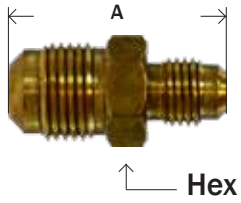
SAE 45° FLARE
BRASS FITTINGS

REDUCING UNION

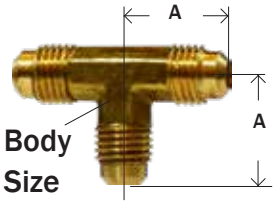


42R
506

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	
10115	1/4" x 1/8"	1.11	0.44	0.03	----
10116	1/4" x 3/16"	1.12	0.44	0.03	----
10117	5/16" x 1/4"	1.28	0.50	0.04	----
10118	3/8" x 1/4"	1.38	0.62	0.06	----
10119	3/8" x 5/16"	1.44	0.62	0.08	----
10120	1/2" x 1/4"	1.53	0.75	0.10	----
10121	1/2" x 3/8"	1.69	0.75	0.10	----
10122	5/8" x 3/8"	1.88	0.87	0.17	----
10123	5/8" x 1/2"	1.87	0.87	0.14	----
10126	3/4" x 1/2"	2.18	1.06	0.26	----
10127	3/4" x 5/8"	2.20	1.06	0.27	----

656F UR2 42-R

UNION TEE



Forged Tee

44F
404
244

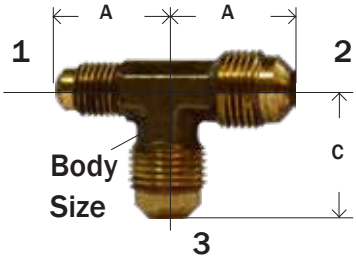
SAE# 010401

PART #	THREAD SIZE UNF	A	BODY SIZE	APPROX. WT. LBS.	
10157	1/8"	0.67	0.36	0.04	----
10158	3/16"	0.75	0.36	0.06	----
10159 **	1/4"	0.78	0.36	0.06	----
10160 **	5/16"	0.91	0.44	0.10	----
10161 **	3/8"	1.00	0.44	0.12	----
10162	1/2"	1.16	0.59	0.19	----
10163	5/8"	1.41	0.69	0.30	----
10164	3/4"	1.64	0.88	0.53	----
10165	7/8"	1.75	1.25	0.93	----

** Available in Stainless Steel. Add SS to the part#

244F T2 144F

REDUCING TEE 1 X 2 X 3



44FR
509

PART #	THREAD SIZE UNF 1X2X3	A	C	BODY SIZE	APPROX. WT. LBS.	
10170	1/4" x 1/4" x 3/8"	0.91	1.00	0.44	0.10	----
10171	5/16" x 5/16" x 1/4"	0.94	0.94	0.44	0.12	----
10172	3/8" x 1/4" x 1/4"	0.91	1.00	0.44	0.10	----
10173	3/8" x 1/4" x 3/8"	1.00	0.91	0.44	0.12	----
10174	3/8" x 3/8" x 1/4"	1.00	0.88	0.44	0.11	----
10175	3/8" x 3/8" x 1/2"	1.00	1.19	0.59	0.14	----
10176	3/8" x 3/8" x 5/8"	1.16	1.44	0.69	0.16	----
10178	1/2" x 3/8" x 3/8"	1.16	1.12	0.59	0.18	----
10179	1/2" x 3/8" x 1/2"	1.16	1.09	0.59	0.18	----
10180	1/2" x 1/2" x 1/4"	1.16	0.97	0.59	0.18	----
10181	1/2" x 1/2" x 3/8"	1.16	1.12	0.59	0.19	----
10182	1/2" x 1/2" x 5/8"	1.28	1.41	0.69	0.28	----
10187	5/8" x 1/2" x 5/8"	1.44	1.33	0.69	0.27	----
10188	5/8" x 5/8" x 3/8"	1.38	1.16	0.69	0.30	----
10189	5/8" x 5/8" x 1/2"	1.38	1.28	0.69	0.28	----

144F TR2 659F 684F 44R

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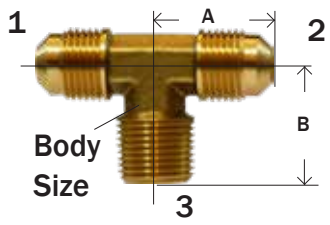
SAE 45° FLARE
BRASS FITTINGS

MALE BRANCH TEE
SAE# 010425



Forged Tee

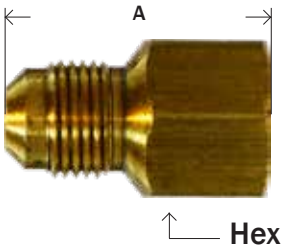
45R
245
405

PART #	MALE FLARE X MALE NPT (1&2) X3	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10203	3/16" x 1/8"	0.75	0.75	0.36	0.10	----
10204	1/4" x 1/8"	0.78	0.75	0.36	0.05	----
10205	1/4" x 1/4"	0.88	0.88	0.44	0.08	----
10206	1/4" x 3/8"	0.92	1.00	0.47	0.10	----
10207	5/16" x 1/8"	0.89	0.78	0.44	0.08	----
10208	5/16" x 1/4"	0.94	0.94	0.44	0.08	----
10209	3/8" x 1/8"	1.00	0.91	0.44	0.14	----
10210	3/8" x 1/4"	1.00	0.94	0.44	0.12	----
10211 **	3/8" x 3/8"	1.00	1.00	0.47	0.13	----
10212 **	3/8" x 1/2"	1.12	1.22	0.69	0.22	----
10213	1/2" x 1/4"	1.16	1.00	0.59	0.20	----
10214	1/2" x 3/8"	1.16	1.14	0.59	0.19	----
10215	1/2" x 1/2"	1.22	1.22	0.69	0.24	----
10216	1/2" x 3/4"	1.38	1.41	0.88	0.22	----
10217	5/8" x 3/8"	1.38	1.25	0.69	0.24	----
10218	5/8" x 1/2"	1.41	1.31	0.69	0.29	----
10219	5/8" x 3/4"	1.41	1.41	0.88	0.36	----
10220	3/4" x 1/2"	1.63	1.59	0.88	0.49	----

** Available in Stainless Steel. Add SS to the part#

T1 145F 45

FEMALE ADAPTER
SAE# 010103



46
246
406

PART #	MALE FLARE X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10227	3/16" x 1/8"	0.97	0.56	0.03	----
10228L	1/4" x 1/8"	1.03	0.56	0.03	----
10228	1/4" x 1/8"	1.03	0.56	0.04	----
10229L	1/4" x 1/4"	1.06	0.68	0.06	----
10229	1/4" x 1/4"	1.23	0.68	0.07	----
10230	1/4" x 3/8"	1.18	0.81	0.08	----
10231	1/4" x 1/2"	1.31	0.94	0.06	----
10232	5/16" x 1/8"	1.06	0.56	0.05	----
10233	5/16" x 1/4"	1.28	0.68	0.08	----
10234	3/8" x 1/8"	1.09	0.62	0.08	----
10235L	3/8" x 1/4"	1.25	0.68	0.08	----
10235	3/8" x 1/4"	1.31	0.81	0.08	----
10236L	3/8" x 3/8"	1.25	0.81	0.08	----
10236	3/8" x 3/8"	1.25	0.81	0.10	----
10237L	3/8" x 1/2"	1.31	0.94	0.08	----
10237	3/8" x 1/2"	1.60	1.00	0.16	----
10238	3/8" x 3/4"	1.41	1.18	0.11	----
10239	1/2" x 1/4"	1.37	0.75	0.10	----
10240L	1/2" x 3/8"	1.38	0.81	0.12	----
10240	1/2" x 3/8"	1.50	0.81	0.14	----
10241L	1/2" x 1/2"	1.42	0.94	0.10	----
10241	1/2" x 1/2"	1.75	1.00	0.12	----
10242L	1/2" x 3/4"	1.40	1.10	0.16	----
10242	1/2" x 3/4"	1.60	1.12	0.16	----
10243	5/8" x 3/8"	1.24	0.87	0.12	----
10244L	5/8" x 1/2"	1.51	0.86	0.15	----
10244	5/8" x 1/2"	1.62	0.94	0.12	----
10245	5/8" x 3/4"	1.65	1.12	0.17	----
10246	3/4" x 1/2"	1.74	1.18	0.32	----
10247	3/4" x 3/4"	1.75	1.18	0.22	----
10248	7/8" x 3/4"	1.94	1.31	0.26	----

46 U3

▪ More sizes available.

"L" means light pat-

-These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial

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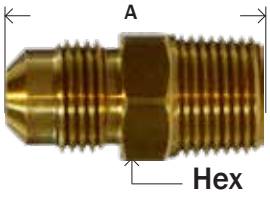
SAE 45° FLARE
BRASS FITTINGS

MALE ADAPTER



48
248
408

SAE# 010102

PART #	MALE FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10253	1/8″ x 1/8″	0.92	0.43	0.02	----
10254	3/16″ x 1/8″	1.00	0.43	0.03	----
10255L	1/4″ x 1/8″	1.06	0.43	0.03	----
10255 *	1/4″ x 1/8″	1.06	0.43	0.04	----
10255EH	1/4" x 1/8"	1.06	0.44	0.03	
10256L	1/4″ x 1/4″	1.15	0.56	0.03	----
10256 *	1/4″ x 1/4″	1.25	0.56	0.04	----
10256SS	1/4" x 1/4"				
10257 *	1/4″ x 3/8″	1.31	0.68	0.06	----
10258	1/4″ x 1/2″	1.44	0.87	0.11	----
10259L	5/16″ x 1/8″	1.15	0.50	0.04	----
10259	5/16″ x 1/8″	1.16	0.50	0.04	----
10260L	5/16″ x 1/4″	1.31	0.56	0.06	----
10260	5/16″ x 1/4″	1.34	0.56	0.06	----
10261 *	5/16″ x 3/8″	1.38	0.68	0.08	----
10262	3/8″ x 1/8″	1.25	0.62	0.07	----
10263L	3/8″ x 1/4″	1.31	0.62	0.06	----
10263 *	3/8″ x 1/4″	1.44	0.62	0.08	----
10263SS	3/8" x 1/4"				
10264L	3/8″ x 3/8″	1.37	0.68	0.09	----
10264 *	3/8″ x 3/8″	1.42	0.68	0.09	----
10264SS	3/8" x 3/8"				
10265L	3/8″ x 1/2″	1.44	0.89	0.12	----
10265 *	3/8″ x 1/2″	1.69	0.87	0.14	----
10266	3/8″ x 3/4″	1.81	1.06	0.18	----
10267	1/2″ x 1/4″	1.60	0.75	0.11	----
10268L	1/2″ x 3/8″	1.46	0.75	0.10	----
10268	1/2″ x 3/8″	1.62	0.75	0.12	----
10269L	1/2″ x 1/2″	1.62	0.87	0.13	----
10269	1/2″ x 1/2″	1.79	0.87	0.15	----
10270	1/2″ x 3/4″	1.75	1.06	0.22	----
10271	5/8″ x 1/4″	1.81	0.87	0.14	----
10272L	5/8″ x 3/8″	1.67	0.87	0.14	----
10272	5/8″ x 3/8″	1.81	0.87	0.18	----
10273L	5/8″ x 1/2″	1.80	0.87	0.11	----
10273	5/8″ x 1/2″	2.00	0.87	0.20	----
10274	5/8″ x 3/4″	1.85	1.06	0.21	----
10275	3/4″ x 1/2″	2.19	1.06	0.28	----
10276	3/4″ x 3/4″	2.08	1.06	0.28	----
10277	7/8″ x 1/2″	2.22	1.25	0.52	----
10278	7/8″ x 3/4″	2.35	1.25	0.41	----
10279	1″ x 3/4″	2.44	1.43	0.53	----
10280	1″ x 1″	2.44	1.43	0.53	----

* Available in Stainless Steel. Add SS to the part#

U1 48

"L" means light pattern.

-These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

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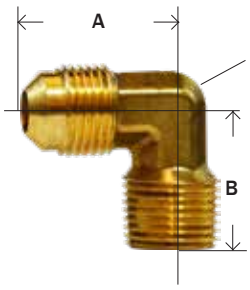
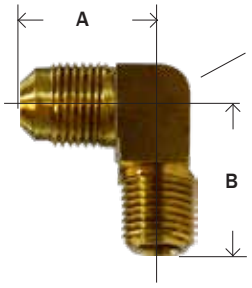
90° MALE ELBOW

SAE# 010202



Forged Elbow



Barstock Elbow

49
249
409

PART #	MALE FLARE X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10283	1/8″ x 1/8″	0.63	0.73	0.37	0.04	----
10283B*	1/8″ x 1/8″	0.62	0.69	0.43	0.04	----
10284	3/16″ x 1/8″	0.75	0.75	0.38	0.04	----
10284B*	3/16″ x 1/8″	0.75	0.75	0.43	0.06	----
10285	3/16″ x 1/4″	0.81	0.88	0.44	0.08	----
10286	1/4″ x 1/8″	0.84	0.78	0.38	0.04	----
10286L	1/4″ x 1/8″	0.96	0.80	0.37	0.04	----
10286B*	1/4″ x 1/8″	0.81	0.78	0.47	0.05	----
10287 **	1/4″ x 1/4″	0.81	0.88	0.44	0.05	----
10287B*	1/4″ x 1/4″	0.91	0.93	0.59	0.08	----
10288 **	1/4″ x 3/8″	0.91	0.91	0.47	0.08	----
10289	1/4″ x 1/2″	1.03	1.09	0.59	0.10	----
10290	5/16″ x 1/8″	0.91	0.88	0.44	0.06	----
10290B*	5/16″ x 1/8″	0.91	0.78	0.52	0.06	----
10291	5/16″ x 1/4″	0.98	0.96	0.44	0.08	----
10291B*	5/16″ x 1/4″	0.95	0.92	0.62	0.08	----
10292	5/16″ x 3/8″	1.06	1.09	0.59	0.08	----
10293	3/8″ x 1/8″	1.00	0.91	0.53	0.08	----
10293B*	3/8″ x 1/8″	1.03	0.91	0.65	0.08	----
10294	3/8″ x 1/4″	1.01	0.89	0.48	0.08	----
10294B*	3/8″ x 1/4″	0.97	1.04	0.68	0.11	----
10295 **	3/8″ x 3/8″	1.00	0.88	0.47	0.10	----
10295L	3/8″ x 3/8″	0.95	0.89	0.46	0.11	----
10295B*	3/8″ x 3/8″	1.06	1.09	0.69	0.12	----
10296 **	3/8″ x 1/2″	1.10	1.09	0.59	0.12	----
10297	3/8″ x 3/4″	1.25	1.31	0.81	0.12	----
10298	1/2″ x 1/4″	1.19	1.00	0.59	0.12	----
10298B*	1/2″ x 1/4″	1.22	1.19	0.81	0.12	----
10299	1/2″ x 3/8″	1.10	1.00	0.59	0.13	----
10299B*	1/2″ x 3/8″	1.22	1.12	0.77	0.18	----
10300	1/2″ x 1/2″	1.16	1.13	0.59	0.14	----
10300B*	1/2″ x 1/2″	1.26	1.26	0.94	0.26	----
10301	1/2″ x 3/4″	1.42	1.25	0.81	0.24	----
10311	5/8″ x 1/4″	1.34	1.13	0.72	0.28	----
10302	5/8″ x 3/8″	1.35	1.22	0.72	0.20	----
10302B*	5/8″ x 3/8″	1.41	1.25	0.94	0.20	----
10303	5/8″ x 1/2″	1.35	1.22	0.72	0.20	----
10303L	5/8″ x 1/2″	1.29	1.11	0.70	0.20	----
10303B*	5/8″ x 1/2″	1.41	1.38	0.94	0.20	----
10304	5/8″ x 3/4″	1.44	1.31	0.81	0.25	----
10305	3/4″ x 1/2″	1.67	1.50	0.88	0.34	----
10306	3/4″ x 3/4″	1.67	1.63	0.88	0.30	----
10306B*	3/4″ x 3/4″	1.60	1.62	0.91	0.32	----
10307	7/8″ x 3/4″	1.75	1.68	1.00	0.44	----
10308	1″ x 3/4″	1.94	1.69	1.31	0.75	----
10309	1″ x 1″	1.94	1.75	1.25	0.78	----

* Barstock
** Available in Stainless Steel. Add SS to the part#

Dimension data can change without notice. Please check when dimensions are critical.

249F 49 E1 149F

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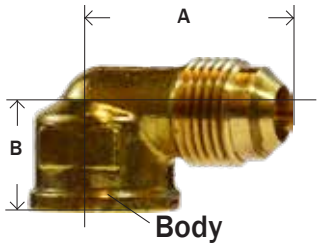
SAE 45° FLARE
BRASS FITTINGS

90° FEMALE ELBOW

SAE# 010203



Forged Elbow

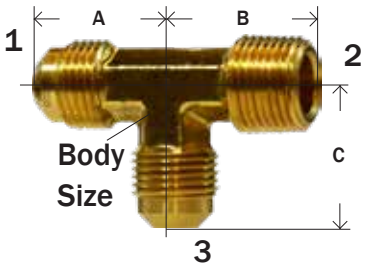
50F
250
500

PART #	MALE FLARE X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10312	3/16" x 1/8"	0.81	0.44	0.56	0.05	----
10313	1/4" x 1/8"	0.90	0.46	0.56	0.06	----
10313B*	1/4" x 1/8"	0.95	0.46	0.56	0.06	----
10314	1/4" x 1/4"	0.97	0.59	0.75	0.08	----
10314B*	1/4" x 1/4"	0.95	0.66	0.75	0.08	----
10315	1/4" x 3/8"	1.03	0.57	0.81	0.09	----
10333	1/4" x 1/2"	1.08	0.66	1.00	0.12	----
10316	5/16" x 1/8"	0.94	0.88	0.45	0.08	----
10306B*	5/16" x 1/8"	0.94	0.87	0.56	0.07	----
10317	5/16" x 1/4"	1.03	0.58	0.75	0.06	----
10318	3/8" x 1/8"	1.00	0.88	0.47	0.10	----
10319	3/8" x 1/4"	1.06	0.59	0.75	0.09	----
10319B*	3/8" x 1/4"	1.15	0.73	0.68	0.14	----
10320	3/8" x 3/8"	1.06	0.57	0.81	0.10	----
10320B*	3/8" x 3/8"	1.10	0.75	0.82	0.16	----
10321	3/8" x 1/2"	1.16	0.66	1.00	0.14	----
10321L	3/8" x 1/2"	1.21	0.42	0.96	0.13	----
10322	3/8" x 3/4"	1.28	0.72	1.25	0.12	----
10323	1/2" x 1/4"	1.25	0.70	0.88	0.13	----
10324	1/2" x 3/8"	1.25	0.70	0.88	0.12	----
10324B*	1/2" x 3/8"	1.26	0.75	0.88	0.16	----
10325	1/2" x 1/2"	1.29	0.72	1.00	0.18	----
10325L	1/2" x 1/2"	1.24	0.71	0.98	0.17	----
10326	1/2" x 3/4"	1.41	0.72	1.25	0.20	----
10327	5/8" x 3/8"	1.35	1.22	0.72	0.22	----
10328	5/8" x 1/2"	1.38	0.75	1.00	0.20	----
10329	5/8" x 3/4"	1.50	0.76	1.25	0.28	----

* Barstock

E3 50 150F

FORGED MALE RUN TEE



51F
501

PART #	MALE FLARE X MALE NPTF (1&3) X 2	A	B	C	BODY SIZE	AP-PROX. WT. LBS.	LIST PRICE
10361	3/16" x 5/16" x 1/8"	0.87	0.78	0.97	0.44	0.08	----
10343	3/16" x 1/8"	0.75	0.75	0.75	0.37	0.05	----
10344	1/4" x 1/8"	0.78	0.75	0.78	0.37	0.06	----
10344B*	1/4" x 1/8"	0.90	0.76	0.86	0.37	0.07	----
10345	1/4" x 1/4"	0.88	0.88	0.88	0.44	0.08	----
10347	5/16" x 1/8"	0.88	0.80	0.88	0.44	0.08	----
10348	5/16" x 1/4"	0.94	0.94	0.94	0.44	0.08	----
10350	3/8" x 1/4"	1.00	0.94	1.00	0.44	0.12	----
10351	3/8" x 3/8"	1.00	1.00	1.00	0.47	0.10	----
10340	3/8" x 1/2" x 3/8"	1.09	1.09	1.16	0.59	0.18	----
10352	3/8" x 1/2"	1.12	1.22	1.12	0.69	0.12	----
10353	1/2" x 3/8" x 1/2"	1.22	1.22	1.15	0.69	0.22	----
10354	1/2" x 3/8"	1.16	1.09	1.16	0.59	0.18	----
10355	1/2" x 1/2"	1.22	1.22	1.22	0.69	0.22	----
10357	5/8" x 1/2"	1.41	1.31	1.41	0.69	0.28	----
10359	3/4" x 1/2"	1.63	1.59	1.63	0.88	0.48	----
10360	3/4" x 3/4"	1.62	1.44	1.62	0.88	0.48	----

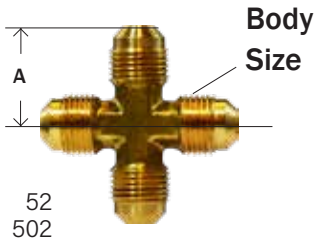
Dimension data can change without notice. Please check when dimensions are critical.

T3 151F 51

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FORGED FLARE CROSS

SAE# 010501

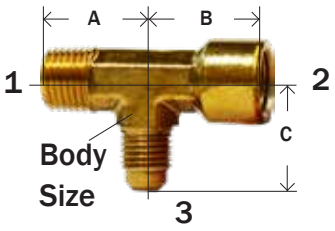


52
502

PART #	THREAD SIZE UNF	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10373	1/4″	0.88	0.44	0.10	----
10374	5/16″	0.92	0.44	0.10	----
10375	3/8″	1.00	0.44	0.16	----
10376	1/2″	1.16	0.59	0.24	----

455 C1 147F 52

FORGED ADAPTER TEE / SERVICE TEE

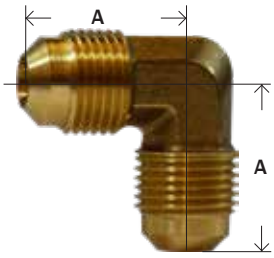


53
503

PART #	SIZE 1 X 2 X 3	A	B	C	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10382	1/8″ x 1/8″ x 1/4″	0.72	0.53	0.80	0.47	0.08	----

T17 53

FORGED 90° FLARE ELBOW



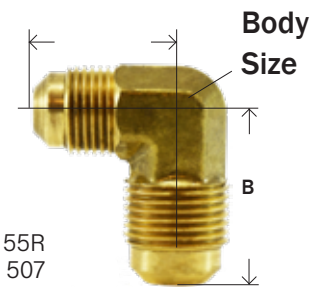
55F
505

PART #	THREAD SIZE UNF	A	APPROX. WT. LBS.	LIST PRICE
10404	1/8″	0.64	0.04	----
10405	3/16″	0.75	0.06	----
10406	1/4″	0.81	0.08	----
10406B*	1/4"	0.89	0.04	----
10407	5/16″	0.91	0.10	----
10408	3/8″	1.00	0.10	----
10409	1/2″	1.16	0.14	----
10409B*	1/2"	1.23	0.22	----
10410	5/8″	1.41	0.22	----
10411	3/4″	1.66	0.68	----
10412	7/8″	1.81	0.82	----

* Barstock

E2 155F

FORGED REDUCING ELBOW



55R
507

PART #	MALE FLARE X MALE FLARE	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10416	3/8″ x 1/4″	1.00	0.88	0.47	0.08	----
10419	1/2″ x 3/8″	1.19	1.02	0.59	0.14	----
10421	5/8″ x 1/2″	1.34	1.23	0.72	0.21	----

ER2 657F 55R

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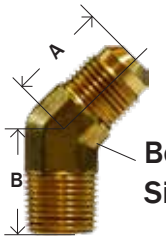
SAE 45° FLARE
BRASS FITTINGS

45° ELBOW



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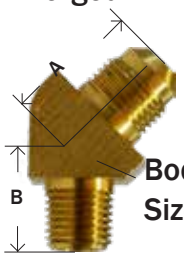


54 Barstock
4945
40945

SAE# 010302

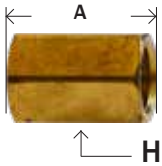
PART #	MALE FLARE X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10448	1/4" x 1/8"	0.67	0.64	0.41	0.04	----
10448B*	1/4" x 1/8"	0.67	0.64	0.44	0.04	----
10449	1/4" x 1/4"	0.75	0.86	0.53	0.07	----
10450	5/16" x 1/8"	0.78	0.64	0.53	0.06	----
10451	5/16" x 1/4"	0.81	0.86	0.53	0.07	----
10452	3/8" x 1/4"	0.91	0.86	0.53	0.09	----
10452B*	3/8" x 1/4"	0.89	0.86	0.64	0.12	----
10453	3/8" x 3/8"	0.93	0.94	0.59	0.11	----
10454	3/8" x 1/2"	0.99	1.17	0.75	0.19	----
10455	1/2" x 3/8"	1.07	0.88	0.59	0.12	----
10455B*	1/2" x 3/8"	1.06	0.94	0.76	0.18	----
10456	1/2" x 1/2"	1.12	1.18	0.75	0.20	----
10460	5/8" x 3/8"	1.13	0.95	0.81	0.22	----
10457	5/8" x 1/2"	1.12	1.17	0.78	0.18	----
10458	3/4" x 1/2"	1.28	1.16	0.88	0.26	----

* Barstock

E145 54 159F 654F 59FF 254 47 4945

FEMALE 45° FLARE FITTINGS

UNION



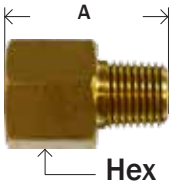
600
600F

SAE# 010107 ▪ Use with Copper Gasket

PART #	FEMALE FLARE X FEMALE FLARE	A	HEX	APPROX. WT. LBS.	LIST PRICE
10135	1/4"	1.00	0.62	0.06	----
10136	3/8"	1.25	0.81	0.14	----
10137	1/2"	1.43	0.94	0.18	----
10138	5/8"	1.69	1.07	0.24	----
10139	3/4"	2.00	1.31	0.42	----

2310 U4 660HD 32

FEMALE FLARE ADAPTER



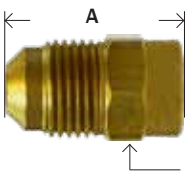
664

SAE# 010106

PART #	FEMALE FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10440	1/4" x 1/8"	0.91	0.62	0.05	----
10441	1/4" x 1/4"	1.01	0.62	0.06	----
10442	3/8" x 1/4"	1.28	0.81	0.10	----
10438	3/8" x 1/2"				
10443	1/2" x 3/8"	1.36	0.94	0.14	----
10444	1/2" x 1/2"	1.46	0.94	0.14	----
10439	5/8" x 1/2"				

U5 664FHD 33 48-FF

FLARE REDUCER
SAE# 010105



601

PART #	MALE FLARE X FEMALE FLARE	A	HEX	APPROX. WT. LBS.	LIST PRICE
10462	1/4" x 3/8"	1.22	0.81	0.10	----
10461	1/4" x 1/2"	1.36	0.94	0.14	----
10463 *	3/8" x 1/4"	1.12	0.62	0.06	----
10464	3/8" x 1/2"	1.44	0.94	0.14	----
10473	3/8" x 5/8"	1.63	1.12	0.16	----
10467	1/2" x 3/8"	1.41	0.81	0.13	----
10468	1/2" x 5/8"	1.68	1.06	0.20	----
10469	5/8" x 1/2"	1.63	1.00	0.17	----
10470	5/8" x 3/4"	1.97	1.31	0.31	----

▪ More sizes available

* Available in Stainless Steel. Add SS to the part#

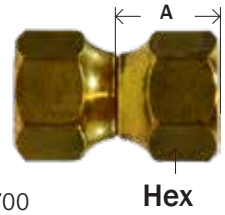
UR3 661FHD 227 46-FF

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE
BRASS FITTINGS

BRASS FLARE SWIVEL FITTINGS

FORGED SWIVEL
SAE# 010108

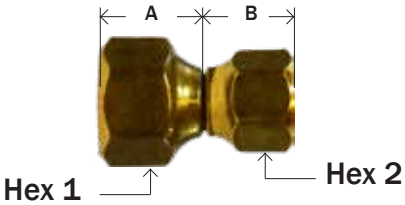


700

PART #	FEMALE FLARE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10481	1/4″	0.59	0.62	0.04	----
10482	5/16″	0.62	0.68	0.06	----
10483	3/8″	0.69	0.81	0.10	----
10483L	3/8"	0.63	0.80		----
10484	1/2″	0.81	0.94	0.16	----
10484L	1/2"	0.82	0.92		----
10485	5/8″	0.94	1.06	0.24	----
10486	3/4″	1.12	1.31	0.34	----

1350 US4 14FSV 34

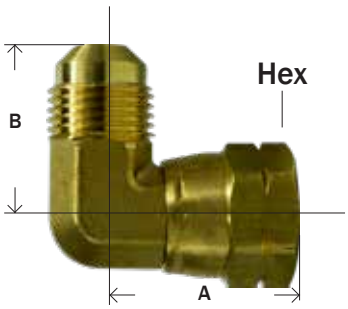
REDUCING SWIVELS



700R

PART #	FEMALE FLARE UNF	A	B	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
10487	3/8″ x 1/4″	0.72	0.60	0.81	0.62	0.08	----
10488	1/2″ x 3/8″	0.84	0.70	0.94	0.81	0.12	----
10489	5/8″ x 1/2″	0.98	0.82	1.03	0.94	0.22	----

FORGED SWIVEL ELBOWS



701

PART #	MALE FLARE X FEMALE FLARE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
10493	1/4″	0.93	0.86	.563	0.12	----
10494	3/8″	1.13	1.1	.75	0.20	----
10495	1/2"	1.29	1.20	.88	0.25	----
10496	5/8"	1.50	1.30	1.00	0.37	----
10497	3/4"	1.83	1.60	1.25	0.54	----

ES4

FLARE SWEAT FITTINGS

PART #	FLARE X SWEAT	LIST PRICE
10600	1/4" x 1/4"	----
10602	1/4" x 3/8"	----
10620	3/8" x 1/4"	----
10612	3/8" x 3/8"	----
10613	3/8" x 1/2"	----
10621	1/2" x 1/2"	----
10611	1/2" x 5/8"	----
10614	5/8" x 5/8"	----
10622	5/8" x 7/8"	----
10615	3/4" x 3/4"	----
10616	3/4" x 7/8"	----
10617	7/8" x 7/8	----
10618	1" x 1-1/8"	----
10619	1-1/8" x 1-1/8"	----

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SPACE HEATER/ GAS RANGE FITTINGS

BRASS FITTINGS

SPACE HEATER FITTINGS

9/16-24 FINE THREAD FLARE NUT

#M-82SH

41FT
800

PART #	SIZE	
14001	3/8	----

MALE ADAPTER

#M-83SH

PART #	SIZE	
14016	3/8 x 3/8	----
14017	3/8 x 1/2	----

FEMALE ADAPTER

#M-80SH

46FT
805

PART #	SIZE	
14018	3/8 x 3/8	----
14025	3/8 x 1/2	----

UNION

PART #	SIZE	
14011	3/8	----

BRASS GAS RANGE FITTINGS

BRASS MALE ADAPTERS 15/16-16 FLARE THREAD

45RG
408RC

PART #	MALE FLARE X MALE NPTF	
35130	3/8" x 3/8"(1/8 Tap)	----
35133	3/8" x 3/8"(1/4 Tap)	----
35131	3/8" x 1/2"(3/8 Tap)	----
35132	1/2" x 1/2" (3/8" FIP TAP)	----
35134	15/16" x 1/2"	----
35135	15/16" x 3/4" (1/2" FIP TAP)	----

BRASS FEMALE ADAPTERS

PART #	FLARE X FIP	
35136	15/16" x 1/2"	----
35142	15/16" x 3/4"	----

DRUM ADAPTERS

K1

- Straight Thread

SAE# 010165

PART #	MALE FLARE X FIP	
50011	1/4" x 1/2"	----
50001	1/4" x 3/4"	----

RD IF K1

CAP

PART #	SIZE	
35186	15/16"	----

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POL FITTINGS
BRASS FITTINGS

TEE CONNECTION

2000

PART #	PIPE SIZE	
34001	1/4" Inverted flare x 1/4" MPT	----

41-1-390-0014 2000

TAILPIECE WITH FLATS

2001A

1/4 NPT

PART #	DESCRIPTION	
34011	2.34 w/ wrench Flats	----

1001AUL 21605 M-2001-A 2002A 2001AHN

STANDARD NUT

7/8" Hex

2001B

PART #	PIPE SIZE	
34016	.880-14 LH	----

2001B

TAILPIECE & NUT ASSEMBLY

2002AB

PART #	PIPE SIZE	
34022	1/4	----

2002AB

POL CAP

2004

PART #	PIPE SIZE	
34031	.880-14LH	----

ME1699 POL2004 1004A M-2004

POL PLUG WITH CHAIN

2014

PART #	DESCRIPTION	
34141	POL PLUG WITH CHAIN	----

ME1691-1

SINGLE PIECE POL ADPATER

2008

PART #	DESCRIPTION	
34130	MALE POL X 1/4 FPT	----
34131	MALE POL X 1/2 FPT	----

ME351 ME357

ADAPTERS

35792
35810

PART #	PIPE SIZE	
34041	3/8 Flare x .880-14LH	----
34046	1/2 Flare x .880-14LH	----
34051	5/8 Flare x .880-14LH	----

ME3510 2906E 2007

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POL FITTINGS
BRASS FITTINGS

TAILPIECE ASSEMBLY W/HEX HEAD NUT & STEM

PART #	LENGTH	
34080	1/4 NPT X POL 2 LONG HARD NOSE 2 OAL	----
34082	MALE POL X 3/8 NPT	----

2906D ME352

PART #	LENGTH	
34088	MPOL HARD NOSE 9/16-18 FE LH THREAD	----

ME1650

PART #	LENGTH	
34084	MPOL X 1/4 HOSE BARB 7/8 HEX	----

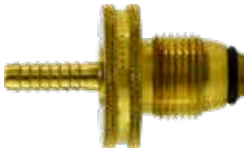
ME5930 970JR

SOFT NOSE TAILPIECE ASSEMBLY

PART #	LENGTH	
34060	1/4 NPT X POL 2.1 LONG #60 ORIFICE	----
34061	1/4 MPT X POL SOFT NOSE 2-1/2	----
34062	1/4 NPT POL SOFT NOSE #60 ORIFICE 2.3 LONG	----
34063	POL X 9/16-18 LH TAIL-PIECE SOFT NOSE	----
34064	1/4 NPT X POL SOFT NOSE 2 3/8 LONG	----

ME1638 2003-T-GH-60 2002 2018-L 2003-T 970S

HAND WHEEL POL ADAPTERS



PART #	LENGTH	
34065	MPOL SOFT NOSE X 1/4 HOSE BARB BR.WHEEL	----

ME1656AR

PART #	LENGTH	
34072	1/4 MPT POL SOFT NOSE W/PLASTIC WHEEL	----

ME1654

PART #	LENGTH	
34073	1/4 MPT POL SOFT NOSE WITH BRASS WHEEL	----

ME1654AR

PART #	LENGTH	
34074	MPOL SOFT NOSE X 1/4 HB W/PLASTIC WHEEL	----

ME1656

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POL FITTINGS
BRASS FITTINGS

PROPANE MOTOR FUEL FILL ADAPTER

- Allows a standard POL fitting to be adapted to fill an engine fuel tank.

PART #	LENGTH	
34079	FE POL X 1 3/4 ACME FUEL FILL ADPT	----

ME458 2017

FEMALE POL X MIP ADAPTER

PART #	LENGTH	
34111	1/4 MPT X FE POL ADAPTER	----
34112	3/8 MPT X FE POL ADAPTER	----
34113	1/2 MPT X FE POL ADAPTER	----
34114	3/4 MPT X FE POL ADAPTER	----

2011-B ME285 2011-D 2011-E

FEMALE FPT X FEMALE POL ADAPTER

PART #	LENGTH	
34120	1/4 FPT X FE POL	----
34121	3/8 FPT X FE POL	----
34122	1/2 FPT X FE POL	----
34123	3/4 FPT X FE POL	----

2016-B ME302 2016-D ME304

POL O-RING ONLY

PART #	LENGTH	
34143	POL O-RING ONLY	----

C5-OR-POL 568-110-01

POL PLASTIC DUST PLUG

PART #	LENGTH	
34160	POL PLASTIC DUST PLUG	----

ME970P

APPLIANCE TEE

- Tap & Add

PART #	LENGTH	
34170	M.POLXF.POL W/1-20M CYL AND 1/4 INV FLAR	----

2090

- Add an appliance

PART #	LENGTH	
34172	M.POLXF. POL W/1-20 MALE CYLINDER THREAD	----

2012

- With QCC1 connection

PART #	LENGTH	
34174	QCC1 X F. POL W/1-20 MALE CYLINDER THD	----

2013

DUAL APPLIANCE TEE

PART #	LENGTH	
34176	M.POL X (2) OF 1-20 MALE CYLINDER THREAD	----

2099

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

JIC 37° FLARE STRAIGHTS

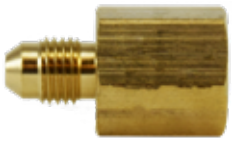
BRASS FITTINGS

STRAIGHT TUBE UNION

PART #	TUBE OD	TUBE THREAD	L	HEX	WORKING PRESSURE	
28966	1/4	7/16-20	1.35	0.49	3250 psi	----
28969	3/8	9/16-18	1.41	0.63	3250 psi	----
28970	1/2	3/4-16	1.62	0.81	3250 psi	----
28971	3/4	1-1/16-12	2.14	1.13	3250 psi	----
28972	1"	1-5/16-12	2.25	1.38	2600 psi	----

SBC 132403 HTXB

FEMALE STRAIGHT ADAPTER



PART #	TUBE OD	PIPE	TUBE THREAD	L	HEX	WORKING PRESSURE	
28957	1/4	1/8-27	7/16-20	1.19	0.56	3250 psi	----
28958	1/4	1/4-18	7/16-20	1.40	0.75	3250 psi	----
28959	3/8	1/4-18	9/16-18	1.40	0.75	3250 psi	----
28960	3/8	3/8-18	9/16-18	1.40	0.88	3250 psi	----
28961	1/2	3/8-18	3/4-16	1.56	0.88	3250 psi	----
28962	1/2	1/2-14	3/4-16	1.79	1.13	3250 psi	----
28963	5/8	1/2-14	7/8-14	1.87	1.13	3250 psi	----
28964	3/4	3/4-1/4	1-1/16-12	2.06	1.38	2600 psi	----

STRAIGHT

PART #	TUBE OD	A NPTF	TUBE THREAD	L	HEX	WORKING PRESSURE	
28701	1/4	1/8-27	7/16-20	1.22	0.45	3250 psi	----
28702	1/4	1/4-18	7/16-20	1.37	0.56	3250 psi	----
28703	1/4	3/8-18	7/16-20	1.42	0.75	3250 psi	----
28704	5/16	1/8-27	1/2-20	1.41	0.56	3250 psi	----
28705	5/16	1/4-18	1/2-20	1.42	0.56	3250 psi	----
28706	3/8	1/8-27	9/16-18	1.24	0.63	3250 psi	----
28707	3/8	1/4-18	9/16-18	1.43	0.63	3250 psi	----
28708	3/8	3/8-18	9/16-18	1.38	0.75	3250 psi	----
28709	3/8	1/2-14	9/16-18	1.69	0.88	3250 psi	----
28710	1/2	1/4-18	3/4-16	1.53	0.81	3250 psi	----
28711	1/2	3/8-18	3/4-16	1.53	0.81	3250 psi	----
28712	1/2	1/2-14	3/4-16	1.79	0.88	3250 psi	----
28713	1/2	3/4-14	3/4-16	1.85	1.13	2600 psi	----
28714	5/8	3/8	7/8-14	1.84	0.94	3250 psi	----
28715	5/8	1/2-14	7/8-14	1.89	0.94	3250 psi	----
28716	5/8	3/4-14	7/8-14	1.95	1.13	2600 psi	----
28748	3/4	1/2-14	1 1/16-12	2.06	1.13	2925 psi	----
28717	3/4	3/4-14	1 1/16-12	2.06	1.13	2600 psi	----
28749	3/4	1-11 1/2	1 1/16-12	2.25	1.38	1950 psi	----
28719	1	3/4-14	1 5/16-12	2.06	1.13	2275 psi	----
28718	1	1-11 1/2	1 5/16-12	2.3	1.38	1950 psi	----

B2404 SB FTXB

STRAIGHT SWIVEL ADAPTER

PART #	TUBE OD	A NPTF	TUBE THREAD	L	HEX	WORKING PRESSURE	
28752	1/4	1/4-18	7/16-20	1.389	.563	3250 psi	----
28753	3/8	1/4-18	9/16-18	1.6	.563	3250 psi	----
28754	3/8	3/8-18	9/16-18	1.574	.690	2925 psi	----
28756	1/2	1/2-14	3/4-16	1.706	.875	2600 psi	----

B6505 SJS

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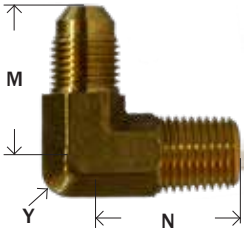
S/B JIC 37° SHAPES
BRASS FITTINGS

90°FORGED ELBOW

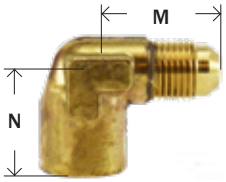


▪ Swivel available

PART #	TUBE OD	TUBE THREAD	A NPTF	M	N	Y	WORKING PRESSURE	
28760F	1/4	7/16-20	1/8-27	0.89	0.78	0.5	2160 psi	----
28762F	1/4	7/16-20	1/4-18	1.05	1.03	0.53	1846 psi	----
28766F	5/16	1/2-20	1/4-18	1.10	1.10	0.55	3905 psi	----
28768F	3/8	9/16-18	1/8-27	1.06	1.00	0.56	3128 psi	----
28770F	3/8	9/16-18	1/4-18	1.06	1.09	0.54	1564 psi	----
28772F	3/8	9/16-18	3/8-18	1.15	1.22	0.74	1464 psi	----
28773F	3/8	9/16-18	1/2-14	1.22	1.47	0.90	1265 psi	----
28774F	1/2	3/4-16	3/8-18	1.25	1.22	0.81	1467 psi	----
28777F	1/2	3/4-16	1/2-14	1.31	1.47	0.90	1265 psi	----
28778F	1/2	3/4-16	3/4-14	1.4	1.59	0.89	2061 psi	----
28780F	5/8	7/8-14	1/2-14	1.45	1.47	0.88	1265 psi	----
28781F	3/4	1 1/16-12	1/2-14	1.66	1.56	1.08	1265 psi	----
28783F	3/4	1 1/16-12	3/4-14	1.66	1.59	1.06	1084 psi	----
28784F	1	1 5/16-12	3/4-14	1.88	1.77	1.32	1802 psi	----
28786F	1	1 5/16-12	1-11 1/2	1.81	1.97	1.3	2361 psi	----

DL3B2 3F69CL GGL6A1 F23L2 EE48D3 EE46B2 FF45A2 F48C3 FF22C3 D49B1 D25B1 3F47C1

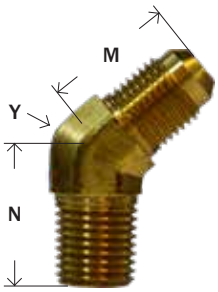
FEMALE ELBOW FORGED BODY



PART #	TUBE OD	TUBE THREAD	A NPTF	M	N	WORKING PRESSURE	
28973	1/4	7/16-20	1/8-27	1.08	0.66	2797 psi	----
28974	1/4	7/16-20	1/4-18	1.25	0.55	3066 psi	----
28975	3/8	9/16-18	1/4-18	1.23	0.88	2842 psi	----

B2502 EBF DTXB

45° FORGED ELBOW



▪ Swivel available

PART #	TUBE OD	TUBE THREAD	A NPTF	M	N	Y	WORKING PRESSURE	
28722F	1/4	7/16-20	1/8-27	0.72	0.64	0.5	4367 psi	----
28724F	1/4	7/16-20	1/4-18	0.81	0.84	0.53	3750 psi	----
28728F	5/16	1/2-2	1/4-18	0.88	0.86	0.54		
28729F	3/8	9/16-18	1/8-27	0.83	0.65	0.63	3128 psi	----
28731F	3/8	9/16-18	1/4-18	0.83	0.86	0.63	3128 psi	----
28733F	3/8	9/16-18	3/8-18	0.91	0.95	0.81	3100 psi	----
28734F	3/8	9/16-18	1/2-14	1.03	1.17	0.94	2826 psi	----
28736F	1/2	3/4-16	3/8-18	0.98	0.95	0.75	2938 psi	----
28738F	1/2	3/4-16	1/2-14	1.13	1.17	0.86	2826 psi	----
28740F	5/8	7/8-14	1/2-14	1.13	1.08	0.88		
28742F	3/4	1 1/16-12	3/4-14	1.28	1.2	1.13	2442 psi	----

B2503 FBC-F VTXB

THREAD CHART

SIZE	JIC THREAD
1/8	5/16-24
3/16	3/8-24
1/4	7/16-20
5/16	1/2-20
3/8	9/16-18
1/2	3/4-16
5/8	7/8-14
3/4	1-1/16-12
1	1-5/16-12

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

INVERTED FLARE FITTINGS

Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
Thread O.D. threads per inch	5/16-28	3/8-24	7/16-24	1/2-20	5/8-18	11/16-18	3/4-18	7/8-18	1-1/16-16	1-3/16-16	1-5/16-16

▪Typical Application
Hydraulic brake, power steering, fuel lines and transmission cooler lines, LP and natural gas.

▪Working Pressure Ranges
Temperature and type of tubing used are important factors. However, the following table is a good guide for proper selection. Temperature 73^{0}F with copper tubing:

PSI	Tube O.D. (in.)	Tube Wall (in.)
2800	1/8	.030
1900	3/16	.030
1400	1/4	.030
1200	5/16	.032
1000	3/8	.032
750	1/2	.032
650	5/8	.035
550	3/4	.035

▪Vibration
Excellent resistance.

▪Temperature Range
-65^{0}F to +250^{0}F (-53^{0}C to +121^{0}C) range at maximum operating pressures.

▪Used With
Copper, brass, aluminum and steel hydraulic tubing that can be flared.

▪Advantages
Very low cost and reusable. Seats and threads are internal and protected. Compact, excellent vibration life. Short nut affords very close tube bends. Steel or brass tube nut.

▪ Tolerance
+/- .03 on all dimensions.

▪Conformance
Meets specifications and standards of ASA, ASME, SAE and MS (Military Standards).

▪Assembly Instructions
1-Cut tubing to desired length. Make sure all burrs are removed and the ends are cut square.
2- Slide nut on tube. Threaded end "A" of nut must face out.
3- Flare end of tube with a 45^0 flaring tool.
a- Measure flare diameter.
b- Examine flare for excessive thin out.
c- On thin wall, welded or brazed tubing, use double flare to prevent pinch-off and cracked flares.
4- Lubricate threads and assemble to fitting body. Nut should be turned hand tight.

STANDARD METRIC THREADS

Description Tube Size	Thread O.D.	Crest (Pitch)	Thread Description
Japanese 3/16"	10mm	1.0mm	M10 x 1.0
European 3/16"	10mm	1.0mm	M10 x 1.0
GM 6mm	12mm	1.0mm	M12 x 1.0
Fuel 5/16"	14mm	1.5mm	M14 x 1.5
Fuel 3/8?	16mm	1.5mm	M16 x 1.5

Measuring Metric Threads: Measure the O.D. of the threads and the crest to crest distance (pitch) in millimeters between threads.

Actual O.D. of male inverted flare threads

5/16"-28 2800 PSI	3/8"-24 1900 PSI	7/16"-24 1400 PSI	1/2"-20 1200 PSI	5/8"-18 1000 PSI	3/4"-18 750 PSI	7/8"-18 650 PSI	1-1/16"-16 550 PSI
1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"

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INVERTED FLARE
BRASS FITTINGS

ZINC CHROMATE STEEL NUT

SAE# 040110

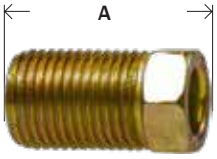
41IFS
41INS

PART #	SIZE	THREAD	A	HEX	APPROX. WT. LBS.	
12001	1/8″	5/16-28	0.52	0.31	0.01	----
12002	3/16″	3/8-24	0.56	0.37	0.02	----
12018	3/16"	7/16-24	0.56	0.43	0.02	----
12003	1/4″	7/16-24	0.56	0.43	0.02	----
12004	5/16″	1/2-20	0.62	0.50	0.02	----
12005	3/8″	5/8-18	0.66	0.62	0.03	----
12000	7/16″	11/16-18	0.68	0.68	0.04	----
12011	3/8"	11/16-18	0.66	0.68	0.05	----
12006	1/2″	3/4-18	0.74	0.75	0.08	----
12007	5/8″	7/8-18	0.80	0.87	0.10	----
12008	3/4″	1-1/16-16	0.88	1.06	0.10	----
12083	7/8"	1-3/16-16	1.07	1.19	0.14	----
12084	1"	1-5/16-16	1.18	1.375	0.21	----

121XXX 2105 411FS 105 41W

LONG STEEL NUT

FOR DOMESTIC LINES



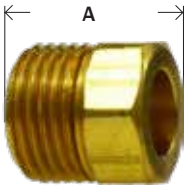
411NL

PART #	SIZE	A	HEX	APPROX. WT. LBS.	
12009	3/16″	0.84	0.37	0.02	----
12010	1/4″	0.81	0.43	0.02	----

7896

INVERTED FLARE BRASS NUT

SAE# 040110



411FB
41INB

PART #	SIZE	A	HEX	APPROX. WT. LBS.	
12012	1/8″	0.52	0.31	0.01	----
12013	3/16″	0.56	0.37	0.01	----
12014	1/4″	0.56	0.43	0.02	----
12015	5/16″	0.62	0.50	0.03	----
12016	3/8″	0.66	0.62	0.04	----
12017	1/2″	0.74	0.75	0.05	----

• More sizes available

2100 41IF 100 41IB

PART #	TUBESIZE	THREAD	REF#	
12260	3/16 British	3/8-24 Bubble	---	----
12261	3/16 European	M10 x 1.0 Bubble	276110	----
12262	3/16 Japanese	M10 x 1.0 Inv.	121050	----
12263	3/16 Domestic	1/2 x 20 Inv.	---	----
12264	3/16 Domestic	9/16 - 18 Inv.	121039	----
12265	3/16 Imported	M11 x 1.5 Bubble	276011	----
12266	3/16 Imported	M12 x 1.0 Bubble	276012	----
12267	3/16 Imported	M13 x 1.5 Bubble	276013	----
12268	1/4 Domestic	9/16 x 18 Inv.	121049	----
12269	1/4 Domestic	1/2 x 20 Inv.	121045	----
12270	6mm Imported	M12 x 1.0 Bubble		----
12271	6mm GM	M12 x 1.0 Bubble		----
12272	6mm GM	M12 x 1.5 Bubble		----
12273	6mm GM	M14 x 1.5 Bubble		----
12274	5/16 Domestic	M14 x 1.5 Surface Seal	121069	----
12275	3/8 Domestic	M16 x 1.5 Surface Seal	121070	----

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INVERTED FLARE
BRASS FITTINGS

UNION INTERNAL

SAE# 040101

421F
421N

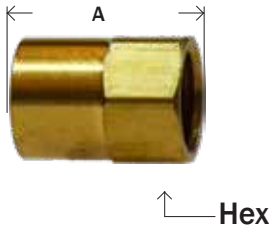
PART #	INV. FLARE X INV. FLARE	A	HEX	APPROX. WT. LBS.	
12022	1/8″	0.59	0.40	0.02	----
12023	3/16″	0.62	0.43	0.02	----
12024	1/4″	0.62	0.50	0.03	----
12025	5/16″	0.70	0.56	0.04	----
12026	3/8″	0.80	0.75	0.08	----
12027	1/2″	0.91	0.90	0.10	----
12028	5/8"	1.31	1.06	0.22	----

see page 72 for metric unions

302 2300 42IFHD

FEMALE ADAPTER

SAE# 040103



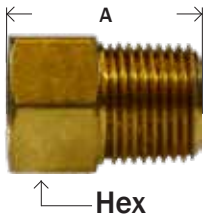
46IN
46IN

PART #	INV. FLARE X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
12029	1/8" x 1/8"	0.716	0.50	0.03	----
12032	3/16″ x 1/8″	0.75	0.50	0.02	----
12033	1/4″ x 1/8″	0.75	0.53	0.02	----
12030	1/4" x 1/4"	1.01	0.751	0.11	----
12034	5/16″ x 1/8″	0.78	0.59	0.04	----
12035	3/8″ x 1/4″	1.03	0.75	0.08	----
12031	7/16" x 1/4"	1.06	0.81	0.11	----
12037	1/2" x 1/4"	1.09	0.90	0.12	----
12036	1/2″ x 3/8″	1.10	0.90	0.12	----
12039	5/8" x 1/2"	1.32	1.065	0.19	----
12099	3/4" x 3/4"	1.50	1.25	0.36	----

46IFHD 252 46W

MALE ADAPTER

SAE# 040102



481N
481F

PART #	INV. FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	
12041	1/8″ x 1/8″	0.63	0.40	0.02	----
12042	3/16″ x 1/8″	0.70	0.43	0.02	----
12053	3/16" x 1/4"	0.72	0.56	0.04	----
12043	1/4″ x 1/8″	0.74	0.50	0.03	----
12044	1/4″ x 1/4″	0.89	0.56	0.04	----
12045	5/16″ x 1/8″	0.79	0.56	0.03	----
12046	5/16″ x 1/4″	0.98	0.56	0.05	----
12055	5/16" x 3/8"	1.01	0.75	0.07	----
12047	3/8″ x 1/8″	0.88	0.72	0.05	----
12048	3/8″ x 1/4″	1.02	0.75	0.06	----
12049	3/8″ x 3/8″	1.02	0.75	0.08	----
12104	7/16" x 1/4"	1.05	0.81	0.06	----
12038	1/2″ x 1/4″	0.97	0.87	0.10	----
12050	1/2″ x 3/8″	1.06	0.87	0.08	----
12051	1/2″ x 1/2″	1.06	0.87	0.11	----
12052	5/8″ x 1/2″	1.32	1.06	0.15	----
12105	3/4" x 1/2"	1.38	1.25	0.18	----
12040	3/4″ x 3/4″	1.39	1.25	0.24	----
12107	7/8" x 3/4"	1.375	1.375	0.21	----
12108	1" x 1"	1.62	1.50	0.37	----

2200 48IFHD 202 48W 200

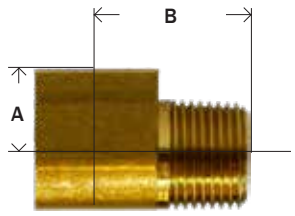
Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

INVERTED FLARE
BRASS FITTINGS

ELBOW

SAE# 040202



491N
491F

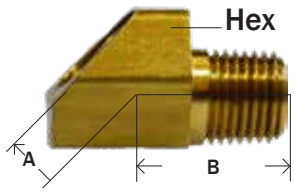
PART #	INV. FLARE X MALE NPTF	A	B	APPROX. WT. LBS.	
12057	1/8″ x 1/8″	0.26	0.59	0.03	----
12058	3/16″ x 1/8″	0.26	0.61	0.03	----
12059	1/4″ x 1/8″	0.33	0.65	0.04	----
12054*	1/4″ x 1/8″	0.33	0.65	0.04	----
12060	1/4″ x 1/4″	0.28	0.82	0.06	----
12061	5/16″ x 1/8″	0.47	0.68	0.05	----
12062	5/16″ x 1/4″	0.45	0.85	0.08	----
12082	5/16" x 3/8"	0.47	0.86	0.12	----
12063	3/8″ x 1/8″	0.54	0.76	0.14	----
12064	3/8″ x 1/4″	0.53	0.92	0.14	----
12065	3/8″ x 3/8″	0.50	0.94	0.12	----
12114	1/2" x 1/4"	0.72	1.08	0.14	----
12066	1/2″ x 3/8″	0.59	1.03	0.16	----
12067	1/2″ x 1/2″	0.66	1.22	0.25	----
12056	5/8″ x 3/8″	0.67	1.09	0.20	----
12068	5/8″ x 1/2″	0.67	1.29	0.18	----
12069	3/4″ x 1/2″	0.80	1.39	0.42	----
12080	7/8″ x 3/4″	0.94	1.43	0.48	----
12081	1″ x 1″	1.02	1.69	0.60	----

400 2400 249IFHD 402 249IF 49W

*** Restricted pipe end .062**

45° ELBOW

SAE# 040302



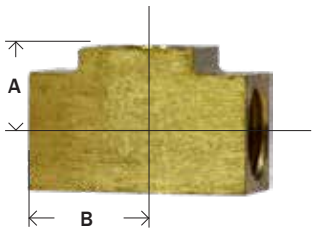
591F
941N

PART #	INV. FLARE X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	
12070	1/8" x 1/8"	0.22	0.48	0.50	0.03	----
12072	3/16″ x 1/8″	0.25	0.55	0.53	0.02	----
12073	1/4″ x 1/8″	0.27	0.58	0.56	0.04	----
12074	5/16″ x 1/8″	0.36	0.56	0.62	0.06	----
12075	5/16″ x 1/4″	0.23	0.83	0.62	0.06	----
12115	3/8" x 1/8"	0.34	0.87	0.87	0.09	----
12076	3/8″ x 1/4″	0.51	0.84	0.78	0.09	----
12077	1/2″ x 3/8″	0.38	0.91	0.84	0.11	----
12079	5/8″ x 1/2″	0.44	1.00	1.06	0.21	----

154 2352 259IFHD 352 94W

UNION TEE

SAE# 040401



441F
441N

PART #	SIZE	A	B	APPROX. WT. LBS.	
12085	1/8″	0.33	0.47	0.04	----
12086	3/16″	0.39	0.55	0.04	----
12087	1/4″	0.42	0.56	0.08	----
12088	5/16″	0.45	0.63	0.09	----
12089	3/8″	0.56	0.74	0.17	----
12090	1/2″	0.67	0.88	0.24	----

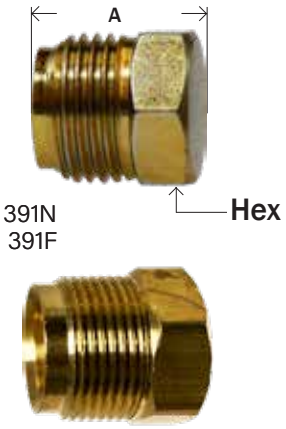
244IFHD 702 441

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

INVERTED FLARE
BRASS FITTINGS

STEEL PLUG

SAE# 040109 ▪ cored



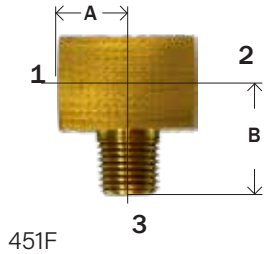
391N
391F

PART # STEEL	SIZE	A	HEX	APPROX. WT. LBS.	
12091	3/16″	0.53	0.37	0.01	----
12092	1/4″	0.54	0.43	0.02	----
12093	5/16″	0.59	0.50	0.03	----
12094	3/8″	0.66	0.62	0.04	----
Brass					
12095	3/8"	0.66	0.63	0.04	----
12096	1/2"	0.82	0.75	0.07	----
12097	5/8"	0.90	0.87	0.10	----
12098	3/4"	0.95	1.07	0.17	----

106 41IP 131 2131

MALE BRANCH TEE

SAE# 040425



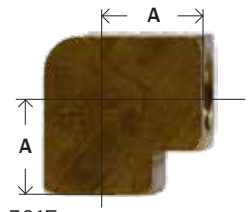
451F
451N

PART #	INV. FLARE X MALE NPTF (1&2)X3	A	B	APPROX. WT. LBS.	
12100	3/16″ x 1/8″	0.41	0.60	0.04	----
12101	1/4″ x 1/8″	0.42	0.64	0.06	----
12102	5/16″ x 1/8″	0.47	0.68	0.07	----
12103	3/8″ x 1/4″	0.58	0.93	0.15	----

145 245IFHD 602 2600 600

FEMALE ELBOW

SAE# 040203



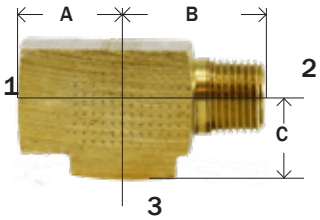
501F
501N

PART #	INV. FLARE X FEMALE NPTF	A	APPROX. WT. LBS.	
12110	1/4″ x 1/8″	0.55	0.07	----
12111	5/16″ x 1/8″	0.51	0.08	----
12112	3/8″ x 1/4″	0.68	0.10	----

450

MALE RUN TEE

SAE# 040424



51IF
511N

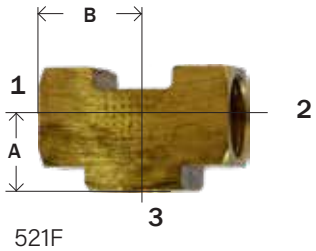
PART #	INV. FLARE X MALE NPTF (1&3)X2	A	B	C	APPROX. WT. LBS.	
12118	3/16″ x 1/8″	0.53	0.72	0.39	0.06	----
12119	1/4″ x 1/8″	0.56	0.75	0.42	0.08	----
12120	5/16″ x 1/8″	0.62	0.85	0.45	0.10	----
12121	3/8″ x 1/4″	0.75	1.08	0.56	0.14	----

251IFHD 752 550 151

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FEMALE BRANCH TEE

SAE# 040427

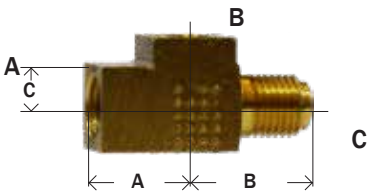


521F
521N

PART #	INV. FLARE X FEMALE NPTF (1&2)X3	A	B	APPROX. WT. LBS.	
12127	3/16″ x 1/8″	0.39	0.55	0.06	----
12129	5/16″ x 1/8″	0.45	0.63	0.12	----
12130	3/8″ x 1/4″	0.56	0.74	0.17	----

252IFHD 652 136

TOWED TRAILER BRAKE TEE

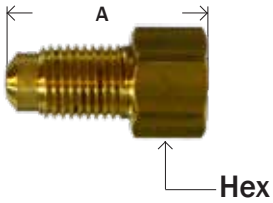


127BT

PART #	A	B	C	REFERENCE #	APPROX. WT. LBS.	
12147	3/16″ 0.57	3/16″ 0.76	3/16″ 0.42	7900	0.08	----
12145	3/16″ (1/2-20) 0.68	3/16″ (3/8-24) 0.94	3/16″ (1/2-20) 0.47	7906	0.17	----
12148	3/16″ (9/16-18)	3/16″ (3/8-24)	3/16″ (9/16/18)	7933	0.10	----
12144	3/16″ (9/16-20) 0.82	3/16″ (3/8-24) 0.94	3/16″ (9/16-20) 0.47	7905	0.18	----
12146	3/16″ (7/16-24) 0.54	3/16″ (3/8-24) 0.78	1/4″ (7/16-24) 0.42	7914	0.08	----
12150	1/4″ 0.56	3/16″ 0.77	1/4″ 0.43	7901	0.10	----
12149	1/4″ (9/16-18) 0.81	3/16″ (3/8-24) 0.93	1/4″ (9/16-18) 0.50	7904	0.10	----
12151	1/4″ 0.56	1/4″ 0.77	1/4″ 0.43	7898	0.12	----

INVERTED FLARE AUTO FITTINGS

DUAL MASTER CYLINDER ADAPTER

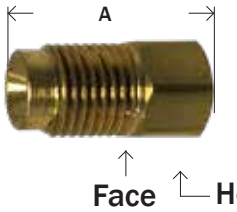


PART #	MALE FLARE X FEMALE INV.	A	HEX	REFERENCE #	APPROX. WT. LBS.	
12200	3/16″ x 3/16″	1.00	0.50	1441	0.03	----
12202	5/16″ x 3/16″	0.96	0.68	7897	0.07	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

INVERTED FLARE
BRASS FITTINGS

DUAL MASTER CYLINDER ADAPTER



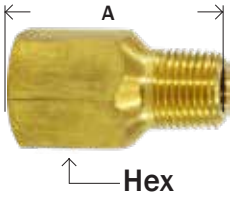
*** Seals on hex face**

48STA
6641N
6011N

PART #	MALE INVERTED THREAD	FEMALE INVERTED THREAD	REF#	
12206	3/16(9/16-18)	3/16	7911	----
12209	3/16(9/16-18)	3/16(1/2-20)	7913	----
12207	3/16(9/16-20)	3/16	7910	----
12210	3/16	1/4	7828	----
12212	1/4	3/16	7818	----
12214*	7/16-20	1/4	7732	----
12211	1/4(9/16-18)	1/4	7908	----
12215	1/4	5/16	7917	----
12213*	5/16	3/16	7817	----
12216	5/16	3/16	7909	----
12208	5/16	3/16(9/16-18)	7912	----
12218*	5/16	1/4	7727	----
12220	5/16	1/4	7829	----
12222*	5/16	5/16	1074	----
12221	5/16	3/8	7915	----
12224	3/8" NPTF	5/16	7771	----
12217	3/8	5/16	7916	----

47W

CARBURETOR TO FUEL LINE ADAPTER - FORD

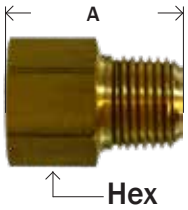


PART #	FEMALE TUBE OD X MALE NPTF	A	HEX	REF #	APPROX. WT. LBS.	
12230	1/4"(1/2-20) x 1/8"	1.06	0.56	1513	0.04	----

1513

RESTRICTION PIPE ADAPTER

(.0625 ORIFICE)



PART #	SIZE FIP X MIP	A	HEX	REF #	APPROX. WT. LBS.	
12310	1/8"	0.75	0.50	1512	0.02	----

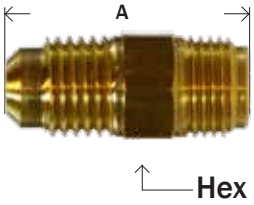
1510

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

INVERTED FLARE
BRASS FITTINGS

SAE FLARE X INVERTED FLARE

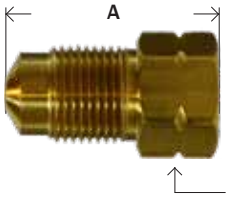


PART #	SAE FLARE X INV. FLARE	A	HEX	REF #	APPROX. WT. LBS.	
12250	1/4" x 3/16"	1.03	0.43	1518	0.02	----
12252	1/4" x 1/4"	1.03	0.43	1522	0.03	----
12254	3/8" x 5/16"	1.34	0.63	1553	0.08	----
12256	3/8" x 3/8"	1.37	0.63	1563	0.09	----
12257	3/8" x 7/16"	1.40	0.68	1554	0.10	----

4205

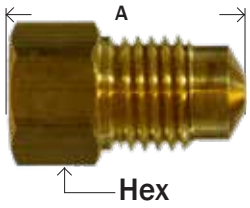
METRIC HYDRAULIC BRAKE FITTINGS

METRIC ADAPTER



PART #	BUBBLE MALE THREAD	TUBE O.D./ FEMALE THREAD	A	HEX	REF #	APPROX. WT. LBS.	
12335	M10x1.0	3/16"(3/8-24)	1.02	0.50	1442	0.02	----
12326	M11x1.5	3/16"(M10x1.0)	1.06	0.50	7935	0.02	----
12327	M12x1.0	3/16"(M10x1.0)	1.02	0.53	7936	0.04	----
12328	M16x1.5	3/16"(M10x1.0)	1.02	0.56	7937	0.06	----

ADAPTER STANDARD TO METRIC BUBBLE



PART #	FEMALE INV. FLARE SEAT	MALE METRIC BUBBLE FLARE	A	HEX	REF #	APPROX. WT. LBS.	
12336	3/16" (3/8-24)	11x1.5			7973		----
12337	3/16" (3/8-24)	(3/16") (10x1.25)	1.00	0.50	7970	0.02	----
12339	3/16" (3/8-24)	13x1.5	1.03	0.56	7972	0.04	----
12341	3/16" (3/8-24)	12x1.0	1.02	0.53	7974	0.04	----

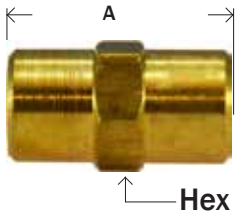
FEMALE X MALE ADAPTERS

PART #	FEMALE STANDARD FLARE SEAT	MALE BUBBLE FLARE	MATERIAL	
12330	3/8-24 (3/16)	7/16-20	Steel	----

PART #	TUBE OD/ FEMALE THREAD	INVERTED MALE THREAD	REF #	
12205	3/16 (3/8-24)	M10 x 1.0	1443	----

PART #	FEMALE STANDARD FLARE	INVERTED MALE THREAD	MATERIAL	
12329	3/8-24 (3/16)	M9 x 1.0	Steel	----

METRIC UNION



PART #	SIZE	A	HEX	REF #	APPROX. WT. LBS.	
12342	British Brake Lines 3/16 (3/8-24 Bubble)	0.87	0.50	1594	0.03	----
12343	European Brake Lines 3/16"(10.0MM)	1.04	0.56	7975	0.04	----
12344	Japanese Brake Lines 3/16 (M10 x 1.0) Inverted	1.00	0.50	7934A	0.04	----
12345	GM Brake Lines 6mm M12 x 1.0 Bubble	1.11	0.63		0.06	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION FITTINGS

These are NOT Lead Free
See pages 164-166 for Lead Free products

Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8
Thread Size-B	5/16-24	3/8-24	7/16-24	1/2-24	9/16-24	5/8-24	11/16-20	13/16-18	1-18	1-1/8-18
Working Pressure	400	400	300	300	200	200	200	150	100	75

▪ Typical Application
Use with copper, aluminum and thermoplastic tubing. Not recommended for steel tubing. Manufactured for low and medium pressure tubing connection work where excessive vibration or tube movement is not involved. Not recommended for application using gaseous media.

▪Pressure
See table above for working pressures at 73°F.

▪Vibration
Fair resistance - use long nut when greater vibration resistance is needed.

▪Temperature Range
-65°F to +250°F (-53°C to +121°C) range at maximum operating pressures. (Refer to tubing temperature range.)

▪Used With
Aluminum, copper, brass and plastic tubing. Plastic tubing requires insert. Not recommended for steel tubing.

▪ Tolerance
+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

▪ Conformance
Meets specifications and standards of ASA, ASME and SAE.

▪Assembly Instructions
1- Cut tubing to desired length.
2- Slide nut and then sleeve on tube. Threaded end "A" of nut must face toward fitting.
3- Insert tubing into fitting body. Be sure tubing is bottomed on fitting shoulder.
4- Lubricate threads and assemble nut to fitting body.
5- Tighten nut hand tight. From that point, tighten with a wrench the number of turns indicated in the chart below.

Tube Size	Additional Turns from Hand Tight
1/8" thru 1/4"	1-1/4"
5/16"	1-3/4"
3/8" thru 1"	2-1/4"

▪ "L" at the end of a Part# means Light Pattern
-These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

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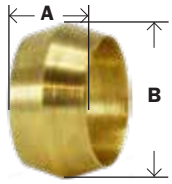
Actual Profile of Compression Threads

COMPRESSION
BRASS FITTINGS

BRASS SLEEVE
• FERRULES

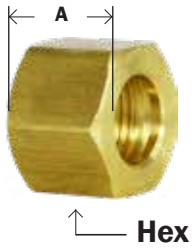


60

SAE# 060115

PART #	SIZE	A	B	APPROX. WT. LBS.	
18001	1/8″	0.19	0.19	0.01	----
18002	3/16″	0.22	0.27	0.01	----
18003	1/4″	0.25	0.34	0.01	----
18004	5/16″	0.25	0.41	0.01	----
18005	3/8″	0.25	0.47	0.02	----
18006	7/16″	0.31	0.53	0.02	----
18007	1/2″	0.38	0.59	0.02	----
18008	5/8″	0.38	0.71	0.03	----
18009	3/4″	0.44	0.87	0.03	----
18010	7/8″	0.41	0.99	0.03	----
18011	1"	0.55	1.16	0.03	----

BRASS NUT

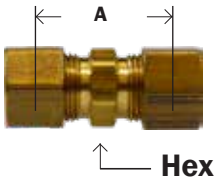


61

SAE# 060110

PART #	SIZE	THREAD	A	HEX	APPROX. WT. LBS.	
18033	1/8″	5/16-24	0.38	0.37	0.01	----
18034	3/16″	3/8-24	0.41	0.43	0.01	----
18035L	1/4″	7/16-24	0.44	0.50	0.02	
18035	1/4″	7/16-24	0.44	0.50	0.02	----
18036	5/16″	1/2-24	0.44	0.56	0.02	----
18037L	3/8″	9/16-24	0.47	0.62	0.04	
18037	3/8″	9/16-24	0.47	0.62	0.04	----
18038	7/16″	5/8-24	0.50	0.68	0.04	----
18039L	1/2″	11/16-20	0.56	0.75	0.04	
18039	1/2″	11/16-20	0.62	0.81	0.04	----
18040L	5/8″	13/16-18	0.56	0.87	0.06	
18040	5/8″	13/16-18	0.62	0.94	0.06	----
18041	3/4″	1-18	0.68	1.12	0.08	----
18042	7/8″	1-1/8 - 18	0.62	1.25	0.10	----
18043	1"		0.94	1.38	0.15	----

UNION



62
262

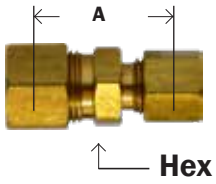
SAE# 060101BA

PART #	SIZE	A	HEX	APPROX. WT. LBS.	
18062	1/8″	0.64	0.31	0.03	----
18063	3/16″	0.75	0.37	0.04	----
18064L	1/4″	0.79	0.43	0.06	----
18064	1/4″	0.81	0.43	0.06	----
18065	5/16″	0.88	0.50	0.06	----
18066L	3/8″	0.96	0.56	0.09	----
18066	3/8″	0.98	0.56	0.10	----
18067	7/16″	1.02	0.62	0.12	----
18068L	1/2″	1.06	0.68	0.16	----
18068	1/2″	1.25	0.68	0.16	----
18069L	5/8″	1.43	0.81	0.24	----
18069	5/8″	1.25	0.81	0.26	----
18070	3/4″	1.41	1.00	0.35	----
18071L	7/8″	1.03	1.12	0.34	----
18071	7/8″	1.00	1.12	0.36	----
18072	1"	1.78	1.38	0.58	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION
BRASS FITTINGS

REDUCING UNION



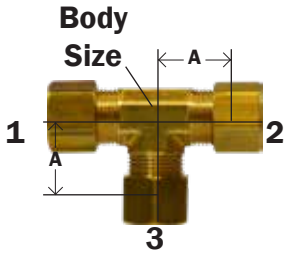
62R

PART #	SIZE	A	HEX	APPROX. WT. LBS.	
18076	1/4" x 1/8"	0.73	0.44	0.04	----
18077	1/4" x 3/16"	0.78	0.44	0.06	----
18078	5/16" x 1/4"	0.81	0.50	0.06	----
18079	3/8" x 1/4"	0.90	0.56	0.10	----
18080	3/8" x 5/16"	0.94	0.56	0.10	----
18081	1/2" x 3/8"	1.03	0.68	0.12	----
18082	5/8" x 3/8"	1.03	0.81	0.15	----
18083	5/8" x 1/2"	1.16	0.81	0.18	----
18085	7/8" x 3/8"	1.18	1.18	0.26	----
18086	7/8" x 1/2"	1.21	1.18	0.24	----
18084	7/8" x 5/8"	1.23	1.18	0.20	----

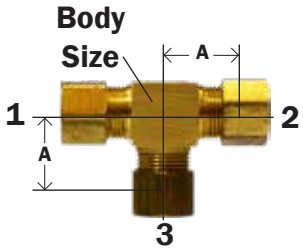
62-R

TEE

SAE# 060401



Forged



Barstock

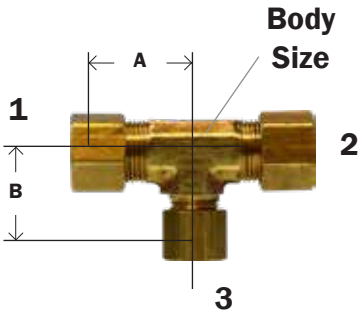
64

PART #	SIZE	A	BODY SIZE	APPROX. WT. LBS.	
18101	1/8"	0.61	0.37	0.04	----
18101B*	1/8"	0.62	0.33	0.04	----
18102	3/16"	0.59	0.36	0.08	----
18102B*	3/16"	0.60	0.38	0.08	----
18103	1/4"	0.63	0.36	0.10	----
18103B*	1/4"	0.62	0.49	0.10	----
18104	5/16"	0.72	0.50	0.13	----
18104B*	5/16"	0.60	0.50	0.14	----
18105	3/8"	0.75	0.50	0.16	----
18105B*	3/8"	0.73	0.59	0.16	----
18106	1/2"	0.94	0.59	0.22	----
18106B*	1/2"	0.94	0.69	0.24	----
18107	5/8"	1.06	0.69	0.28	----
18108	3/4"	1.22	0.88	0.32	----
18109	7/8"	1.25	0.94	0.34	----

* Barstock

64 **264C**

FORGED REDUCING TEE



64R

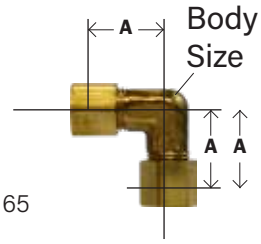
PART #	SIZE 1 X 2 X 3	A	B	BODY SIZE	APPROX. WT. LBS.	
18114	1/4" x 1/4" x 1/8"	0.62	0.59	0.38	0.09	----
18110	1/4" x 1/4" x 3/8"	0.69	0.75	0.50	0.14	----
18111	3/8" x 1/4" x 1/4"	0.75	0.69	0.50	0.12	----
18115	3/8" x 3/8" x 1/4"	0.75	0.69	0.50	0.14	----
18116	1/2" x 1/2" x 1/4"	0.94	0.81	0.59	0.16	----
18117	1/2" x 1/2" x 3/8"	0.94	0.81	0.59	0.24	----
18118	5/8" x 5/8" x 3/8"	1.06	0.94	0.69	0.28	----
18119	5/8" x 5/8" x 1/2"	1.06	1.06	0.69	0.30	----

64-R

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION
BRASS FITTINGS

UNION ELBOW **SAE# 060201**



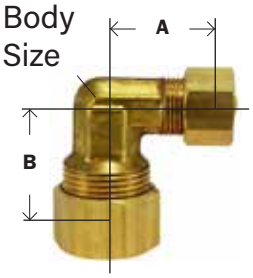
65

Forged Barstock

PART #	SIZE	A	BODY SIZE	APPROX. WT. LBS.	
18122B*	1/8″	0.62	0.35	0.04	----
18123	3/16″	0.61	0.37	0.06	----
18124	1/4″	0.66	0.38	0.08	----
18125	5/16″	0.69	0.47	0.09	----
18126	3/8″	0.72	0.43	0.12	----
18127	1/2″	0.94	0.59	0.19	----
18128	5/8″	1.06	0.72	0.26	----
18129	3/4″	1.19	0.94	0.48	----
18130	7/8″	1.25	0.94	0.44	----

65 **BSE2** 165C **265C**

REDUCING ELBOW - FORGED

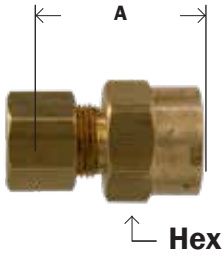


65R

PART #	SIZE	A	B	BODY SIZE	APPROX. WT. LBS.	
18135	3/8″ x 1/4″	0.69	0.75	0.47	0.12	----
18136	1/2″ x 3/8″	0.88	0.94	0.59	0.15	----
18137	5/8″ x 3/8″	0.88	0.97	0.56	0.18	----

65-R

FEMALE ADAPTER
SAE# 060103



66

PART #	COMP. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
18142	1/8″ x 1/8″	0.75	0.56	0.02	----
18143	3/16″ x 1/8″	0.78	0.56	0.04	----
18144	3/16″ x 1/4″	0.96	0.68	0.04	----
18145L	1/4″ x 1/8″	0.84	0.50	0.05	
18145	1/4″ x 1/8″	0.78	0.56	0.05	----
18146L	1/4″ x 1/4″	0.88	0.62	0.09	
18146	1/4″ x 1/4″	1.03	0.68	0.09	----
18148	1/4″ x 1/2″	1.02	0.87	0.12	----
18149	5/16″ x 1/8″	0.81	0.56	0.05	----
18150	5/16″ x 1/4″	0.91	0.62	0.06	----
18152	3/8″ x 1/8″	0.88	0.56	0.06	----
18153L	3/8″ x 1/4″	0.97	0.62	0.08	
18153	3/8″ x 1/4″	1.06	0.68	0.08	----
18154L	3/8″ x 3/8″	1.03	0.75	0.08	
18154	3/8″ x 3/8″	1.06	0.81	0.10	----
18155	3/8″ x 1/2″	1.12	1.00	0.08	----
18156	3/8″ x 3/4″	1.19	1.16	0.14	----
18157	1/2″ x 1/4″	1.09	0.68	0.10	----
18158L	1/2″ x 3/8″	0.94	0.81	0.12	
18158	1/2″ x 3/8″	1.12	0.81	0.12	----
18159L	1/2″ x 1/2″	1.19	1.00	0.12	
18159	1/2″ x 1/2″	1.31	1.00	0.12	----
18160	1/2″ x 3/4″	1.25	1.16	0.18	----
18162L	5/8″ x 1/2″	1.20	0.94	0.18	
18162	5/8″ x 1/2″	1.38	1.00	0.18	----
18163	5/8″ x 3/4″	1.20	1.12	0.22	----
18164	3/4″ x 1/2″	1.25	1.06	0.26	----
18165	3/4″ x 3/4″	1.28	1.19	0.28	----
18167	7/8″ x 1/2″	1.28	1.19	0.32	----
18166	7/8″ x 3/4″	1.31	1.12	0.34	----

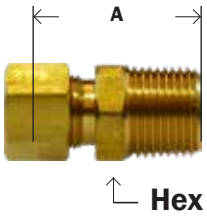
▪ More sizes available

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION
BRASS FITTINGS

MALE ADAPTER

SAE# 060102



68

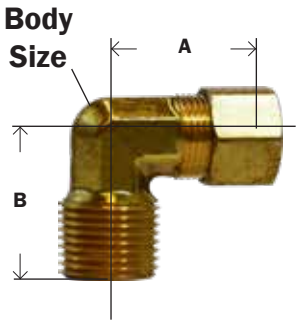
PART #	COMP. X MALE NPTF	A	HEX	APPROX. WT. LBS.	
18175	1/8″ x 1/16″	0.78	0.37	0.02	----
18176	1/8″ x 1/8″	0.78	0.43	0.04	----
18177	3/16″ x 1/8″	0.84	0.43	0.04	----
18178	3/16″ x 1/4″	0.94	0.56	0.06	----
18179L	1/4″ x 1/8″	0.88	0.56	0.04	
18179	1/4″ x 1/8″	0.88	0.43	0.04	----
18180L	1/4″ x 1/4″	0.94	0.56	0.05	
18180	1/4″ x 1/4″	1.06	0.56	0.06	----
18181	1/4″ x 3/8″	1.03	0.68	0.08	----
18182	1/4″ x 1/2″	1.09	0.81	0.10	----
18183	5/16″ x 1/8″	0.91	0.50	0.05	----
18184L	5/16″ x 1/4″	1.01	0.56	0.06	
18184	5/16″ x 1/4″	1.09	0.56	0.06	----
18185	5/16″ x 3/8″	1.06	0.68	0.07	----
18186	5/16″ x 1/2″	1.14	0.87	0.10	----
18187L	3/8″ x 1/8″	0.94	0.56	0.06	
18187	3/8″ x 1/8″	0.97	0.56	0.06	----
18188L	3/8″ x 1/4″	1.03	0.56	0.06	
18188	3/8″ x 1/4″	1.16	0.56	0.07	----
18189L	3/8″ x 3/8″	1.09	0.68	0.08	
18189	3/8″ x 3/8″	1.14	0.69	0.08	----
18190L	3/8″ x 1/2″	1.19	0.88	0.12	
18190	3/8″ x 1/2″	1.34	0.87	0.13	----
18191	3/8″ x 3/4″	1.29	1.06	0.16	----
18192	7/16″ x 1/4″	1.06	0.62	0.10	----
18204	7/16″ x 3/8″	1.10	0.68	0.12	----
18193L	1/2″ x 1/4″	1.09	0.69	0.11	
18193	1/2″ x 1/4″	1.22	0.68	0.11	----
18194L	1/2″ x 3/8″	1.16	0.68	0.12	
18194	1/2″ x 3/8″	1.16	0.69	0.12	----
18195L	1/2″ x 1/2″	1.09	0.81	0.12	
18195	1/2″ x 1/2″	1.41	0.87	0.19	----
18196	1/2″ x 3/4″	1.38	1.06	0.22	----
18216	5/8" x 1/4"	1.21	0.87	0.22	----
18197	5/8″ x 3/8″	1.22	0.87	0.24	----
18198	5/8″ x 1/2″	1.12	0.81	0.24	----
18199	5/8″ x 3/4″	1.31	1.06	0.26	----
18200	3/4″ x 1/2″	1.44	1.00	0.26	----
18201	3/4″ x 3/4″	1.50	1.06	0.26	----
18202	7/8″ x 1/2″	1.18	1.12	0.26	----
18203	7/8″ x 3/4″	1.22	1.12	0.28	----
18205	7/8″ x 1″	1.67	1.37	0.32	----
18206	1" x 3/4"	1.95	1.37	0.44	----
18207	1" x 1"	2.00	1.38	0.48	----

68

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MALE ELBOW

SAE# 060202



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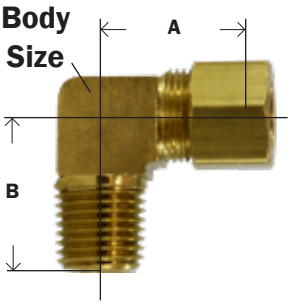


Barstock

69

PART #	COMP. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
18219	1/8" x 1/16"	0.59	0.73	0.34	0.02	----
18220	1/8" x 1/8"	0.59	0.75	0.34	0.02	----
18220B*	1/8" x 1/8"	0.60	0.67	0.43	0.04	----
18221	3/16" x 1/8"	0.63	0.72	0.34	0.04	----
18221B*	3/16" x 1/8"	0.62	0.69	0.43	0.06	----
18223	3/16" x 1/4"	0.60	0.81	0.39	0.05	----
18223B*	3/16" x 1/4"	0.65	0.85	0.41	0.08	----
18224	1/4" x 1/8"	0.60	0.75	0.37	0.06	----
18224B*	1/4" x 1/8"	0.62	0.75	0.43	0.06	----
18225	1/4" x 1/4"	0.65	0.94	0.36	0.08	----
18225B*	1/4" x 1/4"	0.61	0.81	0.56	0.08	----
18226	1/4" x 3/8"	0.75	0.91	0.47	0.08	----
18227	1/4" x 1/2"	0.81	1.13	0.56	0.12	----
18228	5/16" x 1/8"	0.66	0.75	0.47	0.06	----
18228B*	5/16" x 1/8"	0.62	0.75	0.42	0.06	----
18229	5/16" x 1/4"	0.66	0.81	0.47	0.07	----
18229B*	5/16" x 1/4"	0.69	0.84	0.57	0.08	----
18230	5/16" x 3/8"	0.75	0.91	0.47	0.10	----
18231	5/16" x 1/2"	0.84	1.12	0.56	0.12	----
18232	3/8" x 1/8"	0.72	0.66	0.39	0.06	----
18232B*	3/8" x 1/8"	0.69	0.69	0.57	0.06	----
18233	3/8" x 1/4"	0.75	0.82	0.46	0.08	----
18233B*	3/8" x 1/4"	0.75	0.94	0.57	0.08	----
18234	3/8" x 3/8"	0.81	0.94	0.46	0.10	----
18234B*	3/8" x 3/8"	0.71	0.83	0.69	0.10	----
18235	3/8" x 1/2"	0.87	1.12	0.56	0.14	----
18235B*	3/8" x 1/2"	0.88	1.16	0.94	0.14	----
18248	3/8" x 3/4"	1.03	1.19	0.81	0.18	----
18248B*	3/8" x 3/4"	1.03	1.20	0.86	0.16	----
18247	7/16" x 1/4"	0.84	1.00	0.56	0.14	----
18236	1/2" x 1/4"	0.88	0.97	0.56	0.14	----
18236B*	1/2" x 1/4"	0.85	0.94	0.07	0.17	----
18237	1/2" x 3/8"	0.88	1.03	0.56	0.19	----
18237B*	1/2" x 3/8"	0.94	1.12	0.70	0.19	----
18238	1/2" x 1/2"	0.94	1.13	0.59	0.17	----
18238B*	1/2" x 1/2"	0.94	1.31	0.86	0.17	----
18239	1/2" x 3/4"	1.16	1.25	0.81	0.18	----
18240	5/8" x 3/8"	1.06	1.12	0.68	0.18	----
18241	5/8" x 1/2"	1.06	1.16	0.68	0.20	----
18241B*	5/8" x 1/2"	1.06	1.31	0.86	0.20	----
18242	5/8" x 3/4"	1.16	1.31	0.81	0.24	----
18243	3/4" x 1/2"	1.19	1.31	0.94	0.26	----
18245	3/4" x 3/4"	1.19	1.38	0.94	0.30	----
18246	7/8" x 3/4"	1.25	1.38	0.94	0.35	----

* Barstock

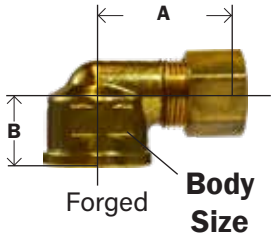
Dimension data can change without notice. Please check when dimensions are critical.

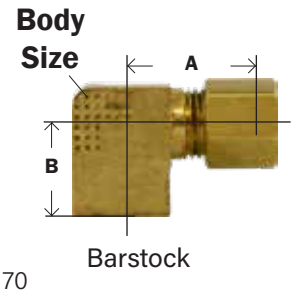
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION
BRASS FITTINGS

FEMALE ELBOW

SAE# 060203





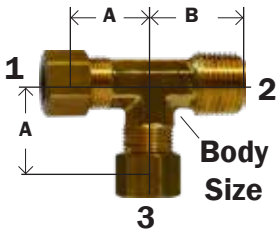
70

PART #	COMP. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
18251	1/8″ x 1/8″	0.69	0.56	0.56	0.04	----
18251B*	1/8" x 1/8"	0.69	0.60	0.57	0.06	----
18252	3/16″ x 1/8″	0.69	0.47	0.56	0.04	----
18252B*	3/16″ x 1/8″	0.60	0.60	0.58	0.07	----
18253	1/4″ x 1/8″	0.69	0.47	0.56	0.06	----
18253B*	1/4″ x 1/8″	0.69	0.56	0.56	0.06	----
18254	1/4″ x 1/4″	0.75	0.50	0.72	0.08	----
18254B*	1/4″ x 1/4″	0.72	0.85	0.68	0.13	----
18267	1/4″ x 3/8″	0.81	0.58	0.81	0.08	----
18268	1/4″ x 1/2″	0.89	0.66	1.00	0.10	----
18255	5/16″ x 1/8″	0.72	0.84	0.47	0.08	----
18256	5/16″ x 1/4″	0.78	0.50	0.72	0.09	----
18257	3/8″ x 1/8″	0.75	0.84	0.47	0.10	----
18258	3/8″ x 1/4″	0.84	0.59	0.75	0.10	----
18259	3/8″ x 3/8″	0.88	0.58	0.81	0.12	----
18260	3/8″ x 1/2″	0.97	0.66	1.00	0.14	----
18250	3/8″ x 3/4″	1.09	0.72	1.25	0.18	----
18261	1/2″ x 1/4″	1.06	0.70	0.88	0.18	----
18262	1/2″ x 3/8″	1.00	0.70	0.88	0.16	----
18263	1/2″ x 1/2″	1.03	0.72	1.00	0.20	----
18270	1/2″ x 3/4″	1.16	0.72	1.25	0.23	----
18269	5/8″ x 3/8″	1.09	0.77	1.00	0.20	----
18264	5/8″ x 1/2″	1.09	0.77	1.00	0.22	----
18265	5/8″ x 3/4″	1.22	0.77	1.25	0.24	----
18266	3/4″ x 1/2″	1.25	1.25	0.94	0.28	----

* Barstock

70 **270C** BSE3 **170C**

FORGED MALE RUN TEE



71

PART #	COMP. X MALE NPTF (1&3) X 2	A	B	BODY SIZE	APPROX. WT. LBS.	
18272	1/8″ x 1/8″	0.63	0.69	0.36	0.06	----
18273	3/16″ x 1/8″	0.63	0.69	0.36	0.07	----
18273B*	3/16" x 1/8"	0.63	0.69	0.36	0.06	----
18274B*	1/4" x 1/8"	0.63	0.75	0.36	0.07	----
18274	1/4″ x 1/8″	0.63	0.75	0.36	0.08	----
18275	1/4″ x 1/4″	0.69	0.88	0.44	0.10	----
18276	5/16″ x 1/8″	0.72	0.75	0.50	0.10	----
18277	5/16″ x 1/4″	0.75	0.88	0.44	0.10	----
18278	3/8″ x 1/8″	0.75	0.75	0.50	0.14	----
18279	3/8″ x 1/4″	0.79	0.87	0.44	0.18	----
18280	3/8″ x 3/8″	0.88	1.00	0.47	0.20	----
18281	1/2″ x 3/8″	0.94	1.09	0.59	0.24	----
18282	1/2″ x 1/2″	0.97	1.19	0.69	0.26	----
18283	5/8″ x 1/2″	1.06	1.31	0.69	0.28	----
18284	3/4″ x 1/2″	1.22	1.34	0.88	0.30	----

* Barstock

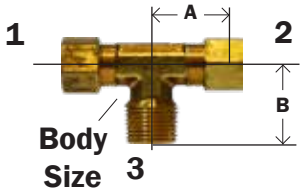
71 **171C** BST3

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION
BRASS FITTINGS

MALE BRANCH TEE

SAE# 060425



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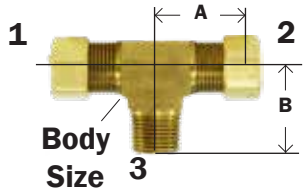


Barstock

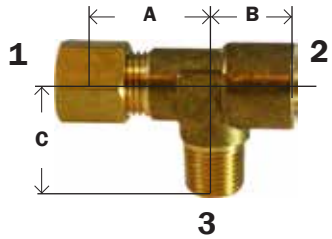
72

PART #	COMP. X MALE NPTF (1&2) X 3	A	B	BODY SIZE	APPROX. WT. LBS.	
18290	3/16" x 1/8"	0.63	0.69	0.36	0.08	----
18291	1/4" x 1/8"	0.62	0.75	0.36	0.10	----
18291B*	1/4" x 1/8"	0.64	0.73	0.45	0.10	----
18292	1/4" x 1/4"	0.69	0.86	0.44	0.10	----
18293	5/16" x 1/8"	0.72	0.75	0.50	0.11	----
18294	5/16" x 1/4"	0.75	0.88	0.44	0.12	----
18295	3/8" x 1/8"	0.75	0.75	0.50	0.14	----
18296	3/8" x 1/4"	0.78	0.88	0.44	0.16	----
18297	3/8" x 3/8"	0.78	0.97	0.47	0.18	----
18298	3/8" x 1/2"	0.88	1.22	0.69	0.20	----
18304	1/2" x 1/4"	0.94	0.97	0.59	0.22	----
18299B*	1/2" x 3/8"	0.96	1.09	0.70	0.24	----
18299	1/2" x 3/8"	0.94	1.12	0.59	0.24	----
18300	1/2" x 1/2"	0.97	1.19	0.69	0.30	----
18301	5/8" x 1/2"	1.06	1.31	0.69	0.32	----
18302	3/4" x 1/2"	1.22	1.34	0.88	0.50	----
18303	3/4" x 3/4"	1.25	1.50	0.88	0.54	----

* Barstock

72 **BST1** 172C

FORGED TEE

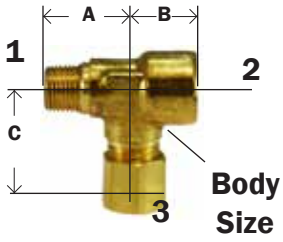


75

PART #	COMP. X FEMALE NPTF X MALE NPTF 1X(2&3)	A	B	C	APPROX. WT. LBS.	
18307	1/4" x 1/8"	0.72	0.53	0.72	0.20	----

BST3

ADAPTER TEE



76

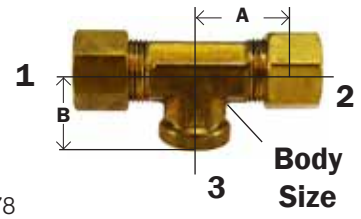
PART #	MALE NPTF X FEMALE NPTF X COMP. (1&2)X3	A	B	C	BODY SIZE	APPROX. WT. LBS.	
18314	1/8" x 1/4"	0.72	0.53	0.72	0.47	0.08	----
18316	3/8" x 1/4"	0.84	0.97	0.81	0.47	0.10	----

76 **176C**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION
BRASS FITTINGS

FEMALE BRANCH FORGED TEE



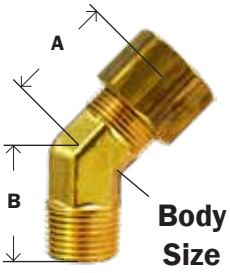
78

PART #	COMP. X FEMALE NPTF (1&2)X3	A	B	BODY SIZE	APPROX. WT. LBS.	
18321	1/4" x 1/8"	0.78	0.75	0.45	0.10	----
18328	1/4" x 1/4"	0.78	0.75	0.44	0.12	----
18325	3/8" x 1/8"	0.75	0.63	0.50	0.12	----
18322	3/8" x 1/4"	0.81	0.97	0.47	0.14	----
18323	3/8" x 3/8"	0.97	0.69	1.05	0.16	----
18326	1/2" x 1/8"	0.94	0.75	0.59	0.20	----
18324	1/2" x 3/8"	1.00	0.72	0.88	0.22	----
18327	5/8" x 1/8"	1.06	0.81	0.69	0.26	----

78 **BST4** 77 **177C** 2908

45° ELBOW

SAE# 060302

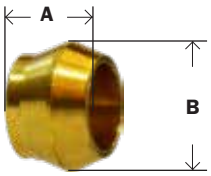


6945

PART #	COMP. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
18329	3/16" x 1/8"	0.40	0.63	0.41	0.04	----
18330	1/4" x 1/8"	0.40	0.61	0.41	0.04	----
18336	1/4" x 1/4"	0.59	0.84	0.53	0.06	----
18331	5/16" x 1/8"	0.59	0.65	0.53	0.06	----
18332	5/16" x 1/4"	0.59	0.83	0.53	0.08	----
18333	3/8" x 1/4"	0.62	0.83	0.53	0.08	----
18338	3/8" x 3/8"	0.75	0.95	0.59	0.10	----
18334	1/2" x 3/8"	0.75	0.88	0.59	0.14	----
18339	1/2" x 1/2"	0.94	1.14	0.75	0.14	----
18335	5/8" x 1/2"	0.78	1.14	0.78	0.14	----

6945 **45BSE1** 74 **179C** 273 **77**

COMPRESSION PLUG

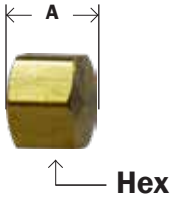


60CP
60CSP

PART #	SIZE	A	B	APPROX. WT. LBS.	
18028	1/4"	0.30	0.34	0.01	----
18029	3/8"	0.31	0.47	0.04	----
18032	5/16"	0.40	0.40	0.01	----
18030	1/2"	0.34	0.59	0.06	----
18031	5/8"	0.45	0.72	0.04	----

CSP

CAP



61CC
61CX

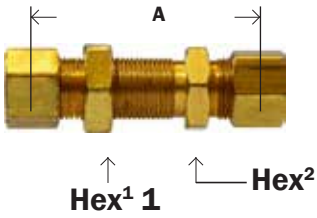
PART #	SIZE	A	HEX	APPROX. WT. LBS.	
18047	1/4"	0.44	0.50	0.02	----
18048	3/8"	0.40	0.62	0.04	----
18049	1/2"	0.48	0.75	0.06	----
18050	5/8"	0.56	0.94	0.10	----

61-CC **N5CT**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BULKHEAD UNIONS

SAE# 060101

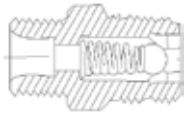


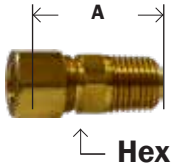
62BH

PART #	SIZE	A	HEX 1	HEX 2	APPROX. WT. LBS.	
18088	1/4″	1.58	0.56	0.56	0.10	----
18090	3/8″	1.76	0.68	0.68	0.14	----
18093	5/8"	2.01	1.000	0.94	0.32	----

62BH **75** 274

BALL CHECK VALVE - MIN. WORKING PRESSURE 3 PSI.



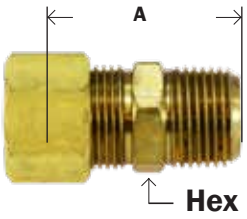


63

PART #	TUBE OD X MALE NPTF	A	HEX	APPROX. WT. LBS.	
18092	1/8″ x 1/8″	0.78	0.44	0.04	----
18094	1/4″ x 1/8″	0.88	0.44	0.04	----
18096	3/8″ x 1/4″	1.16	0.56	0.08	----

63 **263** 63A

TANK ADAPTER DRILLED THRU (NO STOP)



68T

PART #	COMP. X MALE NPTF	A	HEX	APPROX. WT. LBS.	
18208	1/4″ x 1/8″	0.88	0.43	0.04	----
18209	1/4″ x 1/4″	0.99	0.56	0.05	----
18210	3/8″ x 1/4″	1.16	0.56	0.05	----
18211	3/8″ x 3/8″	1.09	0.68	0.08	----
18212	3/8″ x 1/2″	1.19	0.87	0.10	----
18213	1/2″ x 3/8″	1.22	0.68	0.12	----
18214	1/2″ x 1/2″	1.09	0.81	0.14	----
18215	5/8″ x 1/2″	1.12	0.81	0.18	----

68-T **682C** 80F

Middle age is when your broad mind and narrow waist begin to change places.

- E. Joseph Cossman

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

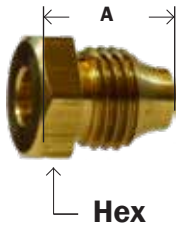
DOUBLE COMPRESSION
BRASS FITTINGS

DOUBLE COMPRESSION THREADED SLEEVE FITTINGS

- Use with aluminum and copper tubing or plastic tubing with internal tube support. Not recommended for steel tubing.
- Easy to assemble, no flaring, two piece construction.
- For use on oil, air, water and grease lubrication systems.
- When design makes a dimension critical, contact us for information.

Tube OD	1/8	3/16	1/4	5/16	3/8
Thread	5/16-24	3/8-24	7/16-24	1/2-20	9/16-20
Working Pressure	500	500	500	250	250

NUT



181

PART #	SIZE	A	HEX	APPROX. WT. LBS.	
16001	1/8″	0.50	0.37	0.02	----
16002	3/16″	0.53	0.43	0.02	----
16003	1/4″	0.56	0.50	0.04	----
16004	5/16″	0.61	0.56	0.04	----
16005	3/8″	0.61	0.62	0.04	----
16006	1/2"	0.90	0.69	0.05	----
16007	5/8"	1.07	0.88	0.06	----

181 **6100** 11

MALE ADAPTER

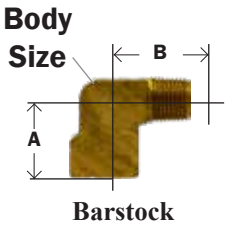
188
26200

PART #	THRD SLEEVE X MALE NPTF	A	HEX	APPROX. WT. LBS.	
16117	1/8″ x *	0.62	0.43	0.02	----
16118	1/8″ x 1/8″	0.62	0.43	0.02	----
16119	3/16″ x 1/8″	0.69	0.43	0.02	----
16121	1/4″ x 1/8″	0.75	0.50	0.04	----
16120	1/4" x 1/4"	1.06	0.56	0.05	----
16122	5/16″ x 1/8″	0.89	0.56	0.04	----
16125	5/16" x 1/4"	1.09	0.56	0.05	----
16123	3/8″ x 1/4″	0.84	0.62	0.06	----

* 1/4 - 28 Male Thread Tapered.

188 **6200** 12

90° ELBOW



189
26400

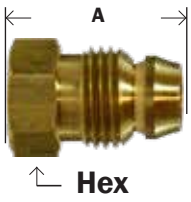
PART #	THRD SLEEVE X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
16127	1/8″ x *	0.50	0.52	0.41	0.02	----
16128	1/8″ x 1/8″	0.50	0.66	0.43	0.02	----
16129	3/16″ x 1/8″	0.56	0.62	0.44	0.02	----
16130	1/4″ x 1/8″	0.52	0.62	0.50	0.04	----
16131	5/16" x 1/8"	0.75	0.81	0.56	0.09	----
16133	3/8" x 1/4"	0.88	1.00	0.56	0.13	----

* 1/4 - 28 Male Thread Tapered

189 **6400** 15

BREAK-AWAY NUT

- 1-Piece Fiting



181SP
21604

PART #	SIZE	A	HEX	APPROX. WT. LBS.	
16009	1/8"	0.66	0.31	0.02	----
16090	3/16″	0.57	0.37	0.02	----
16010	1/4″	0.62	0.43	0.02	----
16011	5/16"	0.77	0.50	0.04	----
16012	3/8"	0.84	0.56	0.04	----

181-BA **21604** 99LB **81LB**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS SPLIT SLEEVE D.O.T. FITTINGS (5/32 O.D.)

TRANSMISSION BRASS FITTINGS

APPLICATIONS: Used with SAE J844 Type A nylon tube in pressure protected air transmission applications.
TECHNICAL DATA: Maximum working pressure up to 150 PSI. Fittings will withstand variations from -40°F to +220°F (-40°C to + 104°C)

Ideally suited for use in passive protected air transmission applications. A specially designed slotted sleeve helps eliminate notch stress related to over torque. **25 prefix parts do not have a stake, use 38 part # with white sealant only**.

COLLET

PART #	TUBE O.D.	
38711	5/32"	----
25001	1/8"	----
25002	3/16"	----
25003	1/4"	----

1460 **90791** 280 **90946**

NUT

PART #	TUBE O.D.	
38732	5/32"	----
25033	1/8"	----

1461 **90790** 281 **90885**

DOUBLE END UNION

PART #	TUBE O.D.	
38761	5/32"	----
25062	1/8"	----
25064	1/4"	----

1462 **90792** 283 **90891**

CONNECTOR WITH NUT AND SLEEVE

PART #	TUBE O.D.	PIPE THREAD	
38769	5/32"	1/16"	----
38770	5/32"	1/8"	----
25175	1/8"	1/16"	----
25176	1/8"	1/8"	----
25177	3/16"	1/8"	----
25179	1/4"	1/8"	----

▪ Shipped with nut and split sleeve, picture shows insert 1468 **90794** 282 **90985**

ELBOW

PART #	TUBE O.D.	PIPE THREAD	
38715	5/32"	1/16"	----
38718	5/32"	1/8"	----
25220	1/8"	1/8"	----
25219	1/8"	1/16"	----
25221	3/16"	1/8"	----
25224	1/4"	1/8"	----

284

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

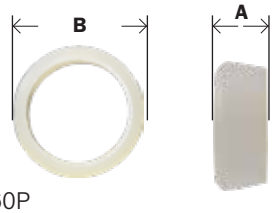
SPECIAL COMPRESSION ASSEMBLIES

BRASS FITTINGS

To purchase special compression assemblies, delete the 18 prefix on part# and add the prefix of the type of special assembly you desire. Pricing and availability upon request.

22 - Plastic sleeve (inserts should be ordered seperately)
24 - Long nut compression
26 - Captive sleeve (parts listed on following pages)
27 - Self align sleeve

DELRIN SLEEVE



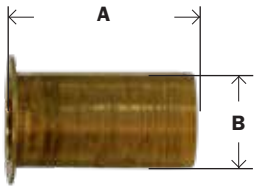
60P

PART #	SIZE	A	B	APPROX. WT. LBS.	
18015	1/4″	0.19	0.37	0.01	----
18016	5/16″	0.19	0.43	0.01	----
18017	3/8″	0.19	0.50	0.02	----
18018	1/2″	0.25	0.63	0.02	----
18019	5/8″	0.22	0.74	0.02	----

60-P

BRASS INSERT

• SLEEVE

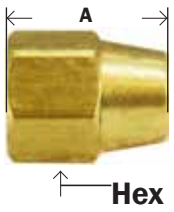


61P
63P

PART #	SIZE	A	B	APPROX. WT. LBS.	WALL	
22008	1/8″	0.46	0.080	0.01	.016	----
22008A	1/8"	0.465	0.073	0.01	.023	----
22009	3/16″	0.45	0.135	0.01	.025	----
22009A	3/16″	0.52	0.095	0.01	.040	
22010	1/4″	0.50	0.163	0.02	.04	----
22010A	1/4″	0.59	0.125	0.02	.04	
22010B	1/4″	0.53	0.172	0.02	.03	
22011A	5/16″	0.50	0.232	0.02	.04	
22011	5/16″	0.53	0.187	0.02	.062	----
22012	3/8″	0.56	0.250	0.03	.062	----
22013	1/2″	0.72	0.370	0.03	.062	----
22014	5/8″	0.72	0.483	0.03	.062	----
22015	3/4″	1.03	0.563	0.03	.03	----

63-BI **60AE** 2030 **63PT**

LONG NUT COMPRESSION - CAN BE ASSEMBLED ON ANY COMPRESSION FITTING



161

PART #	SIZE	A	HEX	APPROX. WT. LBS.	
10013	1/8"	0.50	0.37	0.01	----
24002	3/16"	0.62	0.43	0.01	----
24003	1/4″	0.75	0.50	0.02	----
24004	5/16″	0.84	0.56	0.02	----
24005	3/8″	0.97	0.62	0.04	----
24006	1/2″	1.06	0.81	0.06	----
24007	5/8"	1.19	0.94	0.11	----
24008	3/4"	1.50	1.25	0.14	----

161

SELF-ALIGN SLEEVES

PART #	SIZE	
27001	1/8"	----
27002	3/16"	----
27003	1/4"	----

860 **601**

PART #	SIZE	
27005	3/8"	----
27006	1/2"	----

860

▪ More sizes available

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

CAPTIVE SLEEVE COMPRESSION
BRASS FITTINGS

CAPTIVE SLEEVE NUT

61SA
61CS

PART #	SIZE	
26001	1/8″	----
26002	3/16″	----
26003	1/4″	----
26004	5/16″	----
26005	3/8″	----
26007	1/2″	----
26008	5/8″	----

CS61 **61CA**

UNION

62SA

PART #	SIZE	
26062	1/8″	----
26063	3/16″	----
26064	1/4″	----
26065	5/16″	----
26066	3/8″	----
26079	3/8″ x 1/4″	----
26068	1/2"	----

CS62 **62CA**

TEE

64SA

PART #	SIZE	
26102	3/16″	----
26103	1/4″	----
26105	3/8″	----

CS64 **164CA**

FEMALE ADAPTER

66SA

PART #	COMP. X FEMALE NPTF	
26142	1/8" x 1/8"	----
26145	1/4″ x 1/8″	----
26146	1/4" x 1/4"	----
26153	3/8″ x 1/4″	----

CS66 **66CA**

MALE ADAPTER

68SA

PART #	COMP. X MALE NPTF	
26175	1/8" x 1/16"	----
26176	1/8″ x 1/8″	----
26177	3/16″ x 1/8″	----
26178	3/16" x 1/4"	
26179	1/4″ x 1/8″	----
26180	1/4″ x 1/4″	----
26180L	1/4" x 1/4"	----
26181	1/4″ x 3/8″	----
26182	1/4" x 1/2"	----
26183	5/16″ x 1/8″	----
26184	5/16″ x 1/4″	----
26188	3/8″ x 1/4″	----
26189	3/8″ x 3/8″	----
26190	3/8″ x 1/2″	----
26193	1/2" x 1/4"	
26194	1/2" x 3/8"	----
26195	1/2″ x 1/2″	----
26198	5/8" x 1/2"	

CS68 **68CA**

MALE ELBOW

69SA

PART #	COMP. X MALE NPTF	
26220	1/8″ x 1/8″	----
26220B	1/8″ x 1/8″	----
26221B	3/16" x 1/8"	----
26221	3/16″ x 1/8″	----
26224B	1/4" x 1/8"	----
26224	1/4″ x 1/8″	----
26223	3/16" x 1/4"	
26225	1/4″ x 1/4″	----
26225B	1/4″ x 1/4″	----
26226	1/4" x 3/8"	
26228	5/16″ x 1/8″	----
26229	5/16″ x 1/4″	----
26232	3/8" x 1/8"	----
26233	3/8″ x 1/4″	----
26233B	3/8" x 1/4"	----
26234	3/8" x 3/8"	----
26235	3/8" x 1/2"	----
26237	1/2″ x 3/8″	----
26238	1/2″ x 1/2″	----

CS69 **169CA**

MALE BRANCH TEE

72SA

PART #	COMP. X MALE NPTF (1&2) X 3	
26291	1/4″ x 1/8″	----
26292	1/4″ x 1/4″	----
26293	5/16″ x 1/8″	----
26296	3/8″ x 1/4″	----

CS72 **172CA**

CAPTIVE SLEEVE X MALE PIPE ANGLE NEEDLE VALVE

PART #	COMP X MALE PIPE	
26011	1/4″ x 1/8″	----
26014	5/16″ x 1/4″	----

CAPTIVE SLEEVE X CAPTIVE SLEEVE NEEDLE VALVE

PART #	COMP X COMP	
26021	1/4″	----
26023	3/8″	----

Interchangeable with compress-align fittings.

These are NOT Lead Free
Lead Free products
available upon request

- More sizes available
- Lead Free - add LF to part #

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FLARELESS FITTINGS

Flareless Brass Tube Fittings are Interchangeable with Poly-Flo®, Poly-Tite® and Poly-Line® and Poly-Fit®

Built-in SS
Tube Support

Tube O.D.	1/8	3/16	1/4	5/16	3/8	1/2
Thread Size-B	5/16-24	3/8-24	3/8-24	7/16-24	1/2-24	11/16-20

▪Typical Application
Pneumatic instrumentation circuits, lubricant and cooling lines.

▪Working Pressure and Temperature Ranges
Up to 150 PSI from 0°F to + 150°F with thermoplastic tubing. Up to 300 PSI from 0°F to + 175°F with soft metal tubing.

▪Maximum allowable metal tube wall thickness for use with Poly-Tite fittings:
1/8", 3/16" O.D. --no limitation,
1/4" O.D.--.035 5/16", 3/8",1/2" O.D.--.049

▪Vibration
Excellent Resistance.

▪Temperature Range
Depends on tubing used. -65°F to +250°F (-53°C to +121°C) with brass sleeve, -40°F to +150°F (-40°C to +66°C) with plastic sleeve. (Refer to tubing temperature range.)

▪Used With
Aluminum & copper tubing. Hard plastic tubing requires brass sleeve. Not recommended for steel tubing.

▪ Tolerance
+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

▪Advantages
No flaring of tubing required. Easy installation, captive sleeve, pre-assembled for installation and can be reassembled. Nuts rotate around the sleeve during tightening, preventing twisting of tubing.

▪Assembly Instructions
1- Cut tubing to desired length.
2- Slide nut/sleeve assembly on tube. Threaded end "A" of nut must face toward fitting.
3- Bottom tubing into fitting.
4- Plastic sleeve - Tighten nut hand tight.
Brass Sleeve - Tighten nut hand tight, then an additional 3/4 turn.

* Note: 1/8 and 3/16 sizes have brass sleeves

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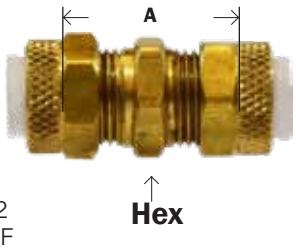
NUT AND PLASTIC SLEEVE ASSEMBLY

MP61P
261PF

PART #	TUBE O.D.	THREAD	A	HEX (DIA.)	APPROX. WT. LBS.	
20211	1/4″	3/8-24	0.34	0.43	0.02	----
20212	5/16″	7/16-24	0.45	0.50	0.02	----
20213	3/8″	1/2-24	0.38	0.56	0.04	----
20214	1/2″	11/16-20	0.42	0.81	0.04	----

261PF **1261** 61PN

UNION

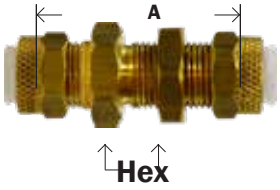


MP62
262PF

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	
20240	1/8″	0.66	0.31	0.02	----
20241	3/16″	0.75	0.37	0.04	----
20242	1/4″	0.69	0.37	0.04	----
20243	5/16″	0.69	0.44	0.04	----
20244	3/8″	0.72	0.50	0.10	----
20200	3/8″ x 1/4″	0.72	0.50	0.08	----
20245	1/2″	0.84	0.69	0.14	----

262PF **1262** 62P **262P**

BULKHEAD UNION

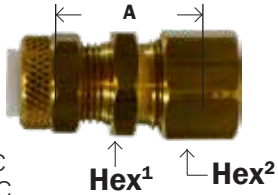


MP82
282PF

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	
20337	1/4″	1.25	0.56	0.06	----
20338	5/16″	1.25	0.62	0.08	----
20339	3/8″	1.31	0.69	0.10	----

62PBH **329P** 282P

UNION TUBE #M62C - FLARELESS X STANDARD COMPRESSION

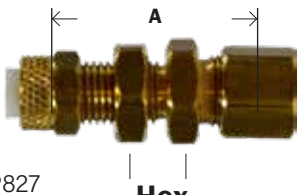


MP62C
262PFC

PART #	TUBE O.D.	A	HEX 1	HEX 2	APPROX. WT. LBS.	
20235	1/4″	0.75	0.44	0.50	0.04	----
20237	3/8″	0.84	0.62	0.62	0.08	----

262S **62PCA** 262PC

BULKHEAD UNION - FLARELESS X COMPRESSION



MP827
282PFC

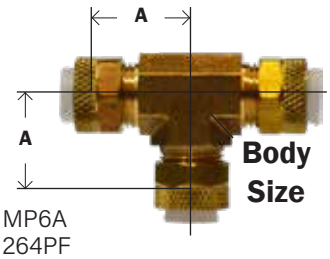
PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	
20333	1/4″	1.31	0.56	0.07	----
20334	3/8″	1.44	0.69	0.12	----

1274

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FLARELESS
BRASS FITTINGS

UNION TEE



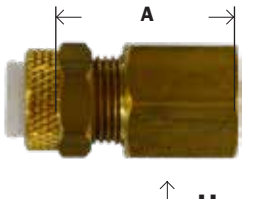
MP6A
264PF

PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	
20248	1/8″	0.62	0.31	0.02	----
20249	3/16″	0.62	0.31	0.04	----
20250	1/4″	0.73	0.44	0.06	----
20251	5/16″	0.62	0.37	0.08	----
20252	3/8″	0.86	0.56	0.08	----
20330*	3/8″ x 1/4″	0.72	0.44	0.08	----
20253	1/2″	0.81	0.62	0.24	----

* Reducing Branch

1264 **164P** 264P

FEMALE CONNECTOR

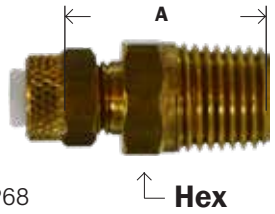


MP66
266PF

PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
20256	1/8″ x 1/8″	0.75	0.56	0.03	----
20257	3/16″ x 1/8″	0.78	0.56	0.05	----
20259	1/4″ x 1/8″	0.76	0.50	0.04	----
20260	1/4″ x 1/4″	1.08	0.62	0.05	----
20261	5/16″ x 1/8″	0.75	0.50	0.03	----
20265	3/8″ x 1/8″	0.77	0.56	0.05	----
20262	3/8″ x 1/4″	0.94	0.62	0.05	----
20263	1/2″ x 3/8″	1.00	0.81	0.12	----

1266 **66P** 266P

MALE CONNECTOR

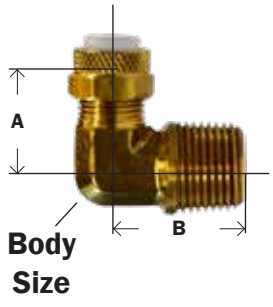


MP68
268PF

PART #	TUBE O.D. X MALE NPTF	A	HEX	APPROX. WT. LBS.	
20268	1/8″ x 1/8″	0.80	0.34	0.04	----
20269	3/16″ x 1/8″	0.86	0.44	0.04	----
20270	1/4" x 10/32"				
20271	1/4″ x 1/8″	0.82	0.44	0.03	----
20272	1/4″ x 1/4″	1.00	0.56	0.05	----
20273	1/4″ x 3/8″	1.03	0.69	0.08	----
20274	5/16″ x 1/8″	0.81	0.44	0.04	----
20275	5/16″ x 1/4"	1.00	0.56	0.05	----
20276	3/8″ x 1/8″	1.00	0.56	0.06	----
20277	3/8″ x 1/4″	1.03	0.56	0.08	----
20278	3/8″ x 3/8″	1.03	0.69	0.10	----
20279	1/2″ x 3/8″	1.09	0.69	0.16	----
20282	1/2″ x 1/2″	1.33	0.88	0.18	----

1268 **68P** 268P

MALE ELBOW



MP69
269PF

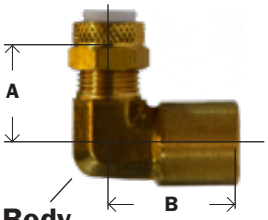
PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
20287	1/8″ x 1/8″	0.62	0.69	0.31	0.02	----
20288	3/16″ x 1/8″	0.62	0.69	0.37	0.04	----
20289*	1/4″ x 1/8″	0.53	0.73	0.50	0.04	----
20290	1/4″ x 1/4″	0.66	0.94	0.37	0.06	----
20291	1/4″ x 3/8″	0.75	1.03	0.50	0.10	----
20292	5/16″ x 1/8″	0.62	0.75	0.41	0.04	----
20293	3/8″ x 1/8″	0.79	0.73	0.37	0.08	----
20294	3/8″ x 1/4″	0.72	0.94	0.44	0.10	----
20295	3/8″ x 3/8″	0.78	1.03	0.50	0.14	----
20296	1/2″ x 3/8″	1.09	1.10	0.73	0.16	----

* Barstock

1269 **169P** 269P

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FEMALE ELBOW

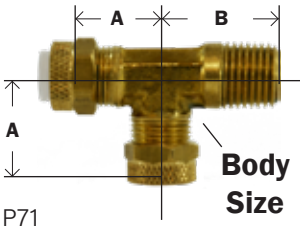


MP70
270PF

PART #	TUBE O.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
20300	1/8″ x 1/8″	0.69	0.55	0.56	0.02	----
20301	3/16″ x 1/8″	0.72	0.55	0.56	0.02	----
20302	1/4″ x 1/8″	0.62	0.75	0.37	0.08	----
20303	1/4″ x 1/4″	0.72	0.88	0.50	0.10	----
20304	3/8″ x 1/4″	0.72	0.88	0.50	0.12	----
20305	1/2″ x 3/8″	0.91	0.94	0.63	0.16	----

1270 **170P**

MALE RUN TEE

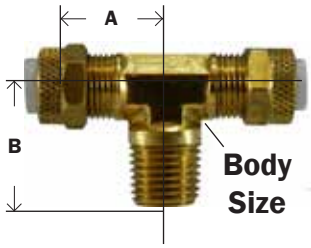


MP71
271PF

PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
20308	1/8″ x 1/8″	0.62	0.69	0.31	0.04	----
20309	3/16″ x 1/8″	0.62	0.69	0.31	0.04	----
20310	1/4″ x 1/8″	0.62	0.75	0.37	0.08	----
20311	1/4″ x 1/4″	0.66	0.94	0.37	0.10	----
20312	5/16″ x 1/8″	0.62	0.75	0.37	0.08	----
20313	3/8″ x 1/4″	0.66	0.94	0.44	0.10	----
20314	1/2″ x 3/8″	0.81	1.06	0.63	0.16	----

1271 **171P**

MALE BRANCH TEE

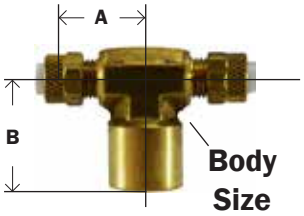


MP72
272PF

PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
20317	1/8″ x 1/8″	0.63	0.69	0.31	0.04	----
20318	3/16″ x 1/8″	0.63	0.69	0.31	0.04	----
20319	1/4″ x 1/8″	0.63	0.75	0.37	0.07	----
20320	1/4″ x 1/4″	0.66	0.94	0.37	0.09	----
20321	5/16″ x 1/8″	0.63	0.75	0.37	0.10	----
20322	3/8″ x 1/8″	0.63	0.75	0.44	0.08	----
20323	3/8″ x 1/4″	0.66	0.94	0.44	0.11	----
20324	1/2″ x 3/8″	0.81	1.06	0.63	0.21	----

1272 **172P** 272P

FEMALE BRANCH TEE



MP77
277PF

PART #	TUBE O.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
20327	1/4″ x 1/8″	0.66	0.94	0.37	0.12	----
20328	1/4″ x 1/4″	0.84	1.16	0.56	0.16	----

1277 **177P** 277P

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FLARELESS
BRASS FITTINGS

UNIVERSAL NUT AND BRASS SLEEVE ASSEMBLY

MP61B
261PFB

PART #	TUBE O.D.	THREAD	A	HEX	APPROX. WT. LBS.	
20227	1/8″	5/16-24	0.37	0.37	0.02	----
20228	3/16″	3/8-24	0.41	0.44	0.02	----
20229	1/4″	3/8-24	0.34	0.43	0.02	----
20230	5/16″	7/16-24	0.34	0.50	0.02	----
20231	3/8″	1/2-24	0.37	0.56	0.04	----
20232	1/2″	11/16-20	0.42	0.81	0.04	----

261PFB **1261B** 61PB **261UB**

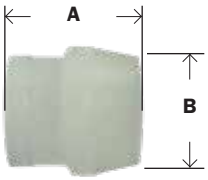
NUT

MP61
261PFN

PART #	TUBE O.D.	THREAD	A	HEX (DIA.)	APPROX. WT. LBS.	
20218	1/8″	5/16-24	0.37	0.37	0.01	----
20219	3/16″	3/8-24	0.41	0.44	0.01	----
20220	1/4″	3/8-24	0.34	0.44	0.02	----
20221	5/16″	7/16-24	0.34	0.50	0.02	----
20222	3/8″	1/2-24	0.38	0.56	0.04	----
20223	1/2″	11/16-20	0.42	0.81	0.06	----

61PN **1261** 261FPN

PLASTIC SLEEVE



MP60
260PF

PART #	TUBE O.D.	A	B	APPROX. WT. LBS.	
20205	1/4″	0.34	0.26	0.01	----
20206	5/16″	0.39	0.32	0.01	----
20207	3/8″	0.41	0.38	0.01	----
20208	1/2″	0.44	0.51	0.01	----

260FF **1260** 60P **260P**

PLASTIC CAP

MP59
269PF

PART #	TUBE O.D.	A	APPROX. WT. LBS.	
20201	1/4″	0.50	0.01	----
20203	3/8″	0.56	0.01	----
20204	1/2″	0.59	0.01	----

1229 **59P** 259P

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH-IN/ PUSH-TO-CONNECT FITTINGS

BRASS PUSH-IN

NICKEL PLATED BRASS PUSH-IN

BALL VALVES FOR N/P PUSH-IN

METRIC N/P BRASS PUSH-IN

COMPOSITE BODY PUSH-IN

COMPOSITE BODY METRIC PUSH-IN

FDA PLASTIC PUSH-IN

DOT BRASS PUSH-IN

DOT COMPOSITE PUSH-IN

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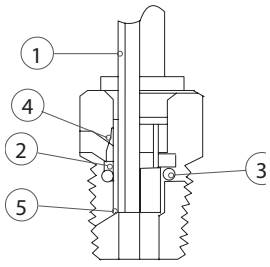
BRASS PUSH-IN FITTINGS

ENGINEERING AND DESIGN

- **QUICK CONNECT**, simply push tubing in, no tools. Saves up to 75% of assembly time of standard compression fittings.
- **QUICK DISCONNECT**, hold two fingers on insert and pull tubing out, no tools required.
- **REUSEABLE**, connect and disconnect numerous times.
- **FULL FLOW DESIGN**, provides up to 60% more flow area than conventional fittings with internal tube supports.
- **POSITIVE SEAL**, no leaks. After tubing is inserted, seal is made.
- **VERSATILE**, BunaN "O" rings standard. Other materials of "O" rings available.
- **SECURE TUBE RETENTION**, pulling on tubing only serves to tighten the connection.
- **SELF CONTAINED ASSEMBLY**, no loose parts, brass body and insert.
- **BRASS CONSTRUCTION**, elbows and tees are forged brass.
- **CHOICE** of convenient swivel of economical stationary elbows and tees.
- **STRAIGHT CONNECTORS** have interior hex for Allen key tightening where space is limited...no need to use a wrench.
- **PRE-APPLIED TEFLON ®** based pipe sealant on all male pipe threads, saving customer additional labor.
- **METRIC SIZES AVAILABLE**: Metric tube sizes from 2mm through 12mm in both standard NPT and metric pipe sizes are available on a special order basis.
- **WORKING TEMPERATURE**:
-10^{0}F to 200^{0}F (other ranges available on request).
- **PIPE THREAD**: NPTF with Teflon ® based sealant pre-applied.



When tubing (1) is inserted into the fitting, it first passes through the gripping teeth (2). Just beyond the gripping teeth is the o-ring (3) which provides the leak proof seal against the OD of the tube. The gripping teeth grab the tube, which expands the insert. Pulling back on the tube only tightens the grip as the insert moves onto the camming surface (4). Pressure through the tube also serves to tighten the grip. The tube bottoms against a positive tube stop (5) in a cavity providing tube support to prevent leakage.

- **Tolerance**
  +/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical

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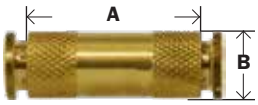
BRASS PUSH-IN FITTINGS
BRASS FITTINGS

UNION CONNECTOR

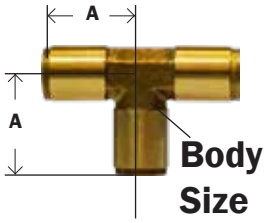


AQ62P
MQ62

PART #	TUBE O.D.	A	B	APPROX. WT. LBS.	
20017	1/8″	1.07	0.38	0.03	----
20018	5/32″	1.07	0.38	0.03	----
20019	1/4″	1.50	0.44	0.05	----
20022	3/8″ x 1/4″	1.46	0.56	0.05	----
20020	3/8″	1.44	0.56	0.06	----
20021	1/2″	1.63	0.81	0.18	----

AQ62 **6580** 3106 **62PL** KQH **12-020** 50-562 **262-OF** 1162 **262PP**

UNION TEE



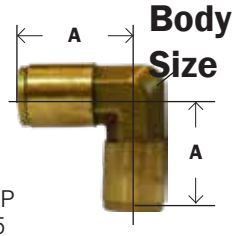
AQ64P
MQ64

PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	
20025	1/8″	0.65	0.31	0.04	----
20026	5/32″	0.67	0.31	0.04	----
20027	3/16″	0.75	0.37	0.06	----
20028	1/4″	0.92	0.37	0.09	----
20031*	5/16″	0.89	0.49	0.10	----
20029	3/8″	0.98	0.50	0.13	----
20030	1/2″	1.16	0.62	0.24	----

* Nickel Plated

KQT **12-060** 50-564 **264OF** 264PP **1164** AQ64 **6540** 3140

UNION ELBOW

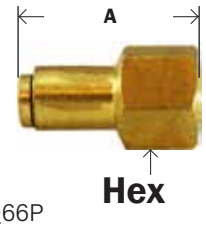


AQ65P
MQ65

PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	
20150	1/8″	0.65	0.31	0.02	----
20151	5/32″	0.67	0.31	0.04	----
20152	1/4″	0.87	0.37	0.06	----
20155	5/16″	0.91	0.47	0.08	----
20153	3/8″	0.97	0.50	0.09	----
20154	1/2″	1.15	0.62	0.18	----

AQ65 **6550** 3102 **165PL** KQL **12-040** 50-565 **265-OF**

FEMALE CONNECTOR



AQ66P

PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
20032	1/8″ x 1/8″	0.96	0.56	0.04	----
20038	1/8″ x 1/4″	1.04	0.67	0.04	----
20012	5/32" x 1/8"	1.09	0.56	0.05	----
20034	1/4″ x 1/8″	1.23	0.56	0.06	----
20035	1/4″ x 1/4″	1.42	0.75	0.09	----
20036	3/8″ x 1/4″	1.32	0.75	0.09	----
20037	3/8″ x 3/8″	1.31	0.87	0.12	----

266PP **AQ66** 6463 **3114** 66PL **12-426** 50-566 **266-OF** 1166

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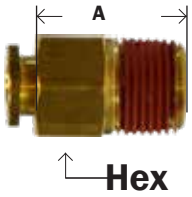
BRASS PUSH-IN FITTINGS
BRASS FITTINGS

MALE CONNECTOR



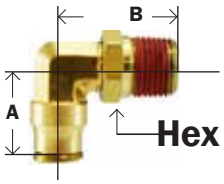
AQ68P
MQ68

PART #	TUBE O.D. X MALE NPTF	A	HEX	APPROX. WT. LBS.	
20047*	1/8" x 10-32"*	0.69	0.37	0.02	----
20045	1/8" x 1/16"	0.68	0.37	0.02	----
20048	1/8" x 1/8"	0.61	0.43	0.02	----
20023	1/8" x 1/4"	0.98	0.56	0.04	----
20049*	5/32" x 10-32"*	0.67	0.37	0.02	----
20050	5/32" x 1/8"	0.67	0.43	0.03	----
20046	5/32" x 1/4"	0.85	0.56	0.05	----
20051*	3/16" x 10-32"*	0.80	0.37	0.02	----
20052	3/16" x 1/8"	0.93	0.43	0.03	----
20053*	1/4" x 10-32"*	0.70	0.43	0.03	----
20039	1/4" x 1/16"	0.92	0.43	0.06	----
20054	1/4" x 1/8"	0.93	0.43	0.06	----
20055	1/4" x 1/4"	0.93	0.56	0.10	----
20056	1/4" x 3/8"	0.94	0.68	0.08	----
20530	5/16" x 1/8"	1.07	0.56	0.05	----
20531	5/16" x 1/4"	0.98	0.56	0.10	----
20532	5/16" x 3/8"	1.06	0.75	0.08	----
20057	3/8" x 1/8"	1.10	0.56	0.06	----
20058	3/8" x 1/4"	1.11	0.56	0.05	----
20059	3/8" x 3/8"	1.02	0.68	0.08	----
20062	3/8"x 1/2"	1.02	0.87	0.08	----
20060	1/2" x 1/4"	1.36	0.81	0.11	----
20061	1/2" x 3/8"	1.30	0.81	0.12	----
20063	1/2" x 1/2"	1.23	0.87	0.14	----

* Furnished with gaskets

268PP **AQ68** 6510 **3115** 68PL **KQH** 12-425 **50-568** 268-OF **1168**

SWIVEL MALE ELBOW



AQ69PS
MQ69S

PART #	TUBE O.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	
20079	1/8" x 1/8"	0.69	0.98	0.43	0.07	----
20535*	1/8" x 1/4"	0.76	0.87	0.56	0.06	----
20076**	5/32" x 10-32"	0.67	0.71	0.37	0.04	----
20080	5/32" x 1/8"	0.68	0.89	0.43	0.05	----
20077	5/32" x 1/4"	0.68	1.08	0.56	0.07	----
20078**	1/4" x 10-32"	0.86	0.79	0.31	0.05	----
20081	1/4" x 1/8"	0.90	0.93	0.37	0.08	----
20082	1/4" x 1/4"	0.90	0.99	0.56	0.10	----
20086	1/4" x 3/8"	0.98	1.14	0.68	0.09	----
20538*	5/16" x 1/4"	0.91	0.85	0.56	0.07	----
20539*	5/16" x 3/8"	0.91	0.87	0.75	0.08	----
20087	3/8" x 1/8"	1.00	1.06	0.43	0.09	----
20083	3/8" x 1/4"	0.99	1.15	0.56	0.10	----
20084	3/8" x 3/8"	1.00	1.24	0.68	0.20	----
20088	3/8" x 1/2"	1.00	1.54	0.87	0.19	----
20085	1/2" x 3/8"	1.16	1.34	0.68	0.18	----
20092	1/2" x 1/2"	1.16	1.51	0.87	0.24	----

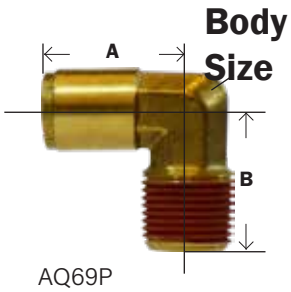
* Nickel Plated
** Furnished with gaskets

aq69-ps **56520** 3109 **169pl** kql **12-447** 50-579 **269-OFS** 11695

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS PUSH-IN FITTINGS
BRASS FITTINGS

FIXED MALE ELBOW



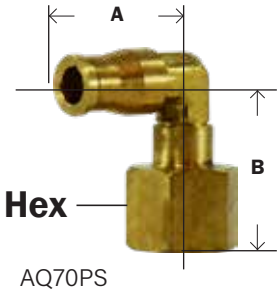
AQ69P
MQ69

PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
20065	1/8" x 1/8"	0.69	0.69	0.31	0.03	----
20066	5/32" x 1/8"	0.68	0.68	0.31	0.03	----
20067	3/16" x 1/8"	0.75	0.71	0.37	0.04	----
20068	1/4" x 1/8"	0.89	0.75	0.37	0.06	----
20069	1/4" x 1/4"	0.95	0.96	0.37	0.08	----
20070	1/4" x 3/8"	1.00	0.98	0.50	0.10	----
20071	3/8" x 1/8"	0.99	0.80	0.50	0.06	----
20072	3/8" x 1/4"	0.98	0.98	0.50	0.09	----
20073	3/8" x 3/8"	0.97	0.98	0.50	0.12	----
20074	1/2" x 1/4"	1.15	1.05	0.62	0.15	----
20075	1/2" x 3/8"	1.18	1.05	0.62	0.22	----
20064	1/2" x 1/2"	1.16	1.66	0.62	0.20	----

269PP **AQ69-P** 6500 **169PLNS** 12-445 **1169**

Dimension data can change without notice. Please check when dimensions are critical.

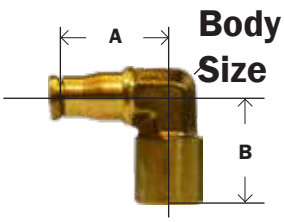
FEMALE SWIVEL ELBOW



AQ70PS
MQ70S

PART #	TUBE O.D. X FEMALE NPTF	A	B	HEX	
20094S	5/32" x 1/8"	0.76	1.06	0.56	----
20089S	1/4" x 1/8"	0.98	1.08	0.56	----
20090S	1/4" x 1/4"	0.98	1.26	0.75	----
20091S	3/8" x 1/4"	1.07	1.48	0.75	----

FEMALE ELBOW



AQ70P
MQ70

PART #	TUBE O.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
20192	1/8" x 1/8"	0.78	0.82	0.31	0.02	----
20094	5/32" x 1/8"	0.68	0.82	0.37	0.02	----
20089	1/4" x 1/8"	0.91	0.75	0.37	0.06	----
20090	1/4" x 1/4"	1.03	1.03	0.50	0.11	----
20091	3/8" x 1/4"	0.98	0.95	0.50	0.16	----

AQ70-P **3009**

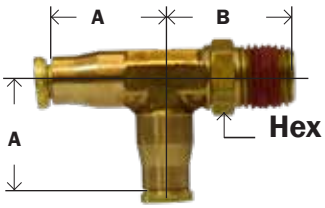
one Man with Courage makes a majority.

– Andrew Jackson

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information visit www.P65Warnings.ca.gov

BRASS PUSH-IN FITTINGS
BRASS FITTINGS

SWIVEL MALE RUN TEE

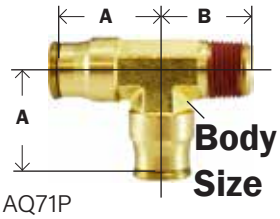


AQ71PS
MQ71S

PART #	TUBE O.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	
20160	1/8" x 1/8"	0.65	0.86	0.43	0.08	----
20161	5/32" x 1/8"	0.67	1.04	0.43	0.09	----
20162	1/4" x 1/8"	0.92	1.04	0.44	0.09	----
20163	1/4" x 1/4"	0.92	1.13	0.56	0.11	----
20164	3/8" x 1/4"	0.94	1.19	0.56	0.11	----
20165	3/8" x 3/8"	0.96	1.24	0.50	0.12	----
20174	1/2" x 1/4"	1.12	1.18	0.51	0.16	----
20166	1/2" x 3/8"	1.14	1.31	0.68	0.14	----
20167	1/2" x 1/2"	1.14	1.61	0.87	0.16	----

AQ71-PS **56440** 3103 **171PL** KQY **12-468** 50-571 **271-OFS** 11715

FIXED MALE RUN TEE

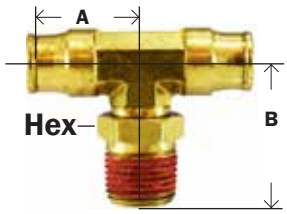


AQ71P
MQ71

PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
20095	1/8" x 1/8"	0.65	0.72	0.31	0.04	----
20097	3/16" x 1/8"	0.75	0.73	0.37	0.06	----
20098	1/4" x 1/8"	0.92	0.74	0.37	0.08	----
20093	1/4" x 1/4"	0.92	0.92	0.43	0.10	----
20099	3/8" x 1/8"	0.94	0.82	0.50	0.14	----
20100	3/8" x 1/4"	0.98	0.98	0.50	0.12	----
20101	3/8" x 3/8"	1.05	1.05	0.62	0.10	----
20102	1/2" x 3/8"	1.14	1.05	0.62	0.18	----

AQ71-P

SWIVEL MALE BRANCH TEE

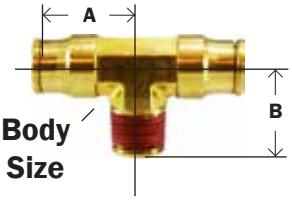


AQ72PS
MQ72S

PART #	TUBE O.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	
20103	1/8" x 1/8"	0.65	0.81	0.31	0.04	----
20104*	5/32" x 10-32"*	0.65	0.71	0.31	0.04	----
20109	5/32" x 1/8"	0.67	0.94	0.37	0.06	----
20105	1/4" x 1/8"	0.92	0.97	0.43	0.08	----
20106	1/4" x 1/4"	0.92	1.09	0.55	0.10	----
20107	3/8" x 1/4"	0.96	1.14	0.56	0.18	----
20108	3/8" x 3/8"	0.96	1.23	0.69	0.16	----
20110	1/2" x 3/8"	1.16	1.34	0.69	0.24	----
20111	1/2" x 1/2"	1.16	1.64	0.87	0.28	----

* Furnished with gaskets

FIXED MALE BRANCH TEE



AQ72P
MQ72

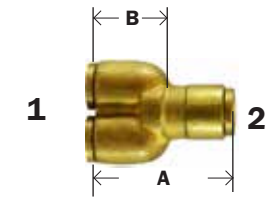
PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
20112	1/8" x 1/8"	0.69	0.72	0.31	0.04	----
20113	5/32" x 1/8"	0.69	0.65	0.31	0.04	----
20115	1/4" x 1/8"	0.92	0.74	0.37	0.12	----
20116	1/4" x 1/4"	0.91	0.91	0.43	0.10	----
20117	3/8" x 1/8"	0.98	0.80	0.50	0.08	----
20118	3/8" x 1/4"	0.98	0.97	0.50	0.12	----
20119	3/8" x 3/8"	0.98	0.97	0.50	0.14	----
20120	1/2" x 3/8"	1.16	1.05	0.62	0.18	----

AQ72-P

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS PUSH-IN FITTINGS
BRASS FITTINGS

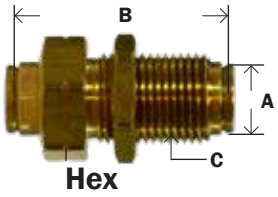
UNION "Y"



AQ89P

PART #	TUBE O.D. 1 X 2	A	B	APPROX. WT. LBS.	
20551	5/32" x 5/32"	1.36	0.81	0.11	----
20552	1/4" x 1/8"	1.61	1.06	0.12	----
20553	1/4" x 1/4"	1.81	1.16	0.14	----

BULKHEAD UNION

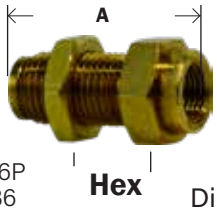


AQ82P
MQ82

PART #	TUBE O.D. A	B	C	HEX	APPROX. WT. LBS.	
20124	1/8"	1.12	7/16-20	0.62	0.03	----
20125	5/32"	1.12	7/16-20	0.62	0.03	----
20126	3/16"	1.27	1/2-20	0.68	0.04	----
20127	1/4"	1.69	1/2-20	0.68	0.06	----
20128	3/8"	1.69	3/4-16	0.81	0.13	----
20129	1/2"	1.85	15/16-20	1.12	0.16	----

AQ82-P **6590** 62PLBH **KQE** 12-029 **50-582** 282-OF **1174**

FEMALE BULKHEAD UNION



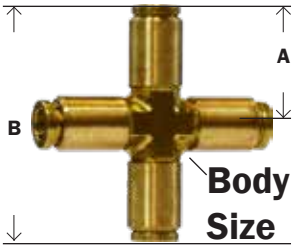
AQ86P
MQ86

PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
20170	1/4" x 1/8"	1.19	0.68	0.08	----
20171	1/4" x 1/4"	1.36	0.75	0.10	----
20172	3/8" x 1/4"	1.71	0.75	0.14	----

AQ86-P **1166BH**

Dimension data can change without notice. Please call us when dimensions are critical.

CROSS



SIZE	SIZE	A	B	BODY SIZE	
20142	1/4"	1.03	2.06	0.37	----
20143	3/8"	1.06	2.12	0.50	----

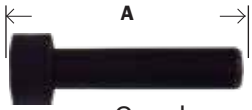
REDUCER - NICKEL PLATED - TUBE OD X STUD

MQ97

PART #	TUBE O.D. 1 X 2	A	B	APPROX. WT. LBS.	
20510	1/8" x 1/4"	1.38	0.39	0.02	----
20511	5/32" x 1/4"	1.33	0.35	0.02	----
20512	1/4" x 3/8"	1.50	0.51	0.04	----

67PPL **286PP**

PLASTIC PLUG



AQ59P
MQ59

▪ Cored

PART #	TUBE O.D.	A	APPROX. WT. LBS.	
20009	5/32"	1.16	0.01	----
20010	1/4"	1.40	0.01	----
20011	3/8"	1.40	0.02	----
20013	1/2"	1.50	0.02	----

284PP **AQ59** 209-OF **1129** 6900 **639PL** 12-004 **50-526**

WARNING: This product can expose you to chemicals, including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS
WITH GLOBAL THREAD

• NPTF • BSPP • BSPT • ISO 7 • ISO 228 • G THREAD • J THREAD

- Saves time and money
- No stripped threads
- No stripped parts
- Reduce inventory
- Completely reusable
- Quick installation
- No pitch identification

Component Parts and Materials	
Body	Brass - Nickel Plated
Thrust Ring	Acetalic Resin/ Glass filled Nylon
Sleeve	Brass - Nickel Plated
Gripper Collet	Stainless Steel
Safety Ring	PA66
Lip Seal (1/8 O-Ring Seal)	NBR 70
Thread Seal	NBR 70

Max Operating Pressure: Vacuum to 290PSI.
Min Temperature: -4°F
Max Temperature: 176°F
Tubing: Nylon, Polyethylene, Polyurethane.
- For best results use 95 Durometer
Media: Compressed air, water, vacuum

- **Tolerance**
  +/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

GLOBAL THREAD

WORKS WITH INCH OR METRIC THREADS

GLOBAL THREAD
NPT • BSPT • RC • NPTF • BSPP • G

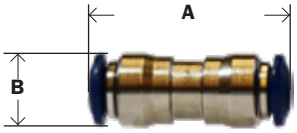
"Global Thread" fittings can be assembled with female threads produced to the following standards:

Tapered NPTF
Parrallel (BSPP, BSP, ISO 7)
Tapered (BSPT, PT, ISO 7, ISO 228)

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS

UNION CONNECTOR

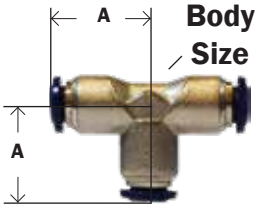


PART #	TUBE O.D.	A	B	APPROX. WT. LBS.	
20017N	1/8″	1.06	0.34	0.03	----
20018N*	5/32″	1.20	0.41	0.03	----
20016N	5/32" x 1/4"	1.20	0.40	0.04	----
20019N*	1/4″	1.38	0.49	0.05	----
20015N*	5/16"	1.46	0.57	0.06	----
20020N*	3/8″	1.69	0.69	0.06	----
20022N	3/8" x 1/4"	1.69	0.68	0.06	----
20021N*	1/2″	1.93	0.81	0.18	----
20024N	1/2" x 3/8"	1.84	0.80	0.17	----

62PL **88040**

* Available in SS

UNION TEE

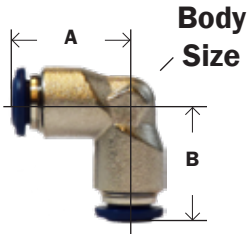


PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	
20025N	1/8″	0.67	0.35	0.04	----
20026N*	5/32″	0.67	0.35	0.04	----
20028N*	1/4″	0.83	0.43	0.09	----
20031N*	5/16″	0.87	0.51	0.10	----
20029N*	3/8″	1.04	0.63	0.13	----
20030N*	1/2″	1.20	0.74	0.24	----

164PL **88230**

* Available in SS

UNION ELBOW

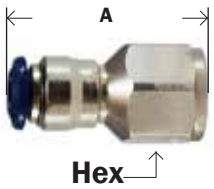


PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	
20150N	1/8″	0.67	0.35	0.02	----
20151N*	5/32″	0.67	0.35	0.04	----
20152N*	1/4″	0.83	0.43	0.06	----
20155N*	5/16″	0.87	0.51	0.08	----
20153N*	3/8″	1.04	0.63	0.09	----
20154N*	1/2″	1.20	0.75	0.18	----

165PL **88130**

* Available in SS

FEMALE CONNECTOR



PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
20032N	1/8″ x 1/8″	0.93	0.51	0.04	----
20038N	1/8″ x 1/4″	1.14	0.63	0.04	----
20034N	1/4″ x 1/8″	1.06	0.51	0.06	----
20035N	1/4″ x 1/4″	1.26	0.63	0.09	----
20036N	3/8″ x 1/4″	1.38	0.71	0.09	----
20037N	3/8″ x 3/8″	1.38	0.79	0.12	----

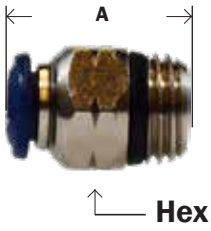
66PL **88030**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS

BRASS FITTINGS

MALE CONNECTOR



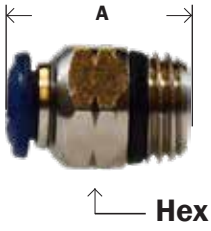
GLOBAL THREAD
NPT • BSPT • RC • NPTF • BSPP • G

- Can be purchased with NPTF threads upon request

* Available in stainless steel

PART #	TUBE O.D. X MALE GLOBAL THREAD	A	HEX	APPROX. WT. LBS.	
20047N	1/8″ x 10-32″	0.75	0.31	0.02	----
20048N	1/8″ x 1/8″	0.77	0.43	0.02	----
20023N	1/8″ x 1/4″	0.97	0.55	0.04	----
20049N*	5/32″ x 10-32″	0.83	0.39	0.02	----
20050N*	5/32″ x 1/8″	0.83	0.43	0.03	----
20046N*	5/32″ x 1/4″	0.98	0.55	0.05	----
20053N*	1/4″ x 10-32″	0.97	0.51	0.03	----
20054N*	1/4″ x 1/8″	0.98	0.51	0.06	----
20055N*	1/4″ x 1/4″	0.98	0.55	0.10	----
20056N	1/4″ x 3/8″	0.98	0.71	0.08	----
20530N*	5/16″ x 1/8″	0.98	0.55	0.05	----
20531N*	5/16″ x 1/4″	1.08	0.55	0.10	----
20532N	5/16″ x 3/8″	1.08	0.71	0.08	----
20057N	3/8″ x 1/8″	1.38	0.67	0.06	----
20058N*	3/8″ x 1/4″	1.32	0.67	0.05	----
20059N*	3/8″ x 3/8″	1.32	0.71	0.08	----
20062N	3/8″ x 1/2″	1.32	0.87	0.08	----
20841N	1/2" x1/8"	1.03	0.79	0.12	----
20060N	1/2″ x 1/4″	1.54	0.79	0.11	----
20061N*	1/2″ x 3/8″	1.42	0.79	0.12	----
20063N*	1/2″ x 1/2″	1.58	0.87	0.14	----

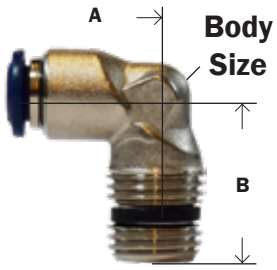
MALE CONNECTOR WITH INTERNAL HEX



PART #	TUBE O.D. X MALE GLOBAL THREAD	A	HEX	APPROX. WT. LBS.	
20842N	1/8″ x 10-32″ UNF	0.71	0.10	0.02	----
20847N	5/32" x 10-32 UNF	0.79	0.10	0.02	----
20846N	5/32" x 1/8"	0.71	0.12	0.03	----
20845N	1/4″ x 10-32″ UNF	0.93	0.10	0.03	----
20843N	1/4" x 1/8"	0.93	0.16	0.06	----
20844N	1/4" x 1/4"	0.85	0.16	0.10	----

68PL **87000**

FIXED MALE ELBOW



PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
20068N	1/4″ x 1/8″	0.83	0.73	0.43	0.06	----
20069N	1/4″ x 1/4″	0.83	0.91	0.43	0.08	----
20072N	3/8″ x 1/4″	1.04	1.04	0.63	0.09	----
20073N	3/8″ x 3/8″	1.04	1.00	0.63	0.12	----

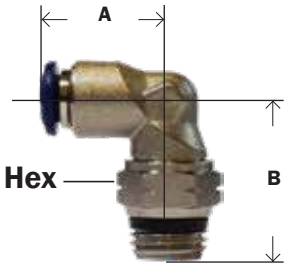
W169PLNS **8100**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS

BRASS FITTINGS

SWIVEL MALE ELBOW



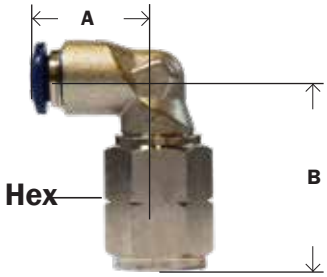
▪ Can be purchased with NPTF threads upon request

* Available in stainless steel

PART #	TUBE O.D. X MALE GLOBAL THREAD	A	B	HEX	APPROX. WT. LBS.	
20079N	1/8″ x 1/8″	0.67	0.78	0.51	0.07	----
20535N	1/8″ x 1/4″	0.67	0.95	0.59	0.06	----
20076N*	5/32″ x 10-32″	0.67	0.95	0.59	0.04	----
20080N*	5/32″ x 1/8″	0.67	0.79	0.51	0.05	----
20848N*	5/32" x 1/4"	0.67	1.00	0.59	0.05	----
20081N*	1/4″ x 1/8″	0.83	0.87	0.51	0.08	----
20082N*	1/4″ x 1/4″	0.83	0.98	0.59	0.10	----
20086N	1/4″ x 3/8″	0.83	1.10	0.67	0.09	----
20537N*	5/16" x 1/8"	0.91	0.98	0.51	0.06	----
20538N*	5/16″ x 1/4″	0.89	1.02	0.59	0.07	----
20539N	5/16″ x 3/8″	0.87	1.10	0.67	0.08	----
20087N	3/8″ x 1/8″	1.04	1.02	0.51	0.09	----
20083N*	3/8″ x 1/4″	1.04	1.10	0.59	0.10	----
20084N*	3/8″ x 3/8″	1.04	1.18	0.67	0.20	----
20088N*	3/8″ x 1/2″	1.04	1.30	0.83	0.19	----
20184N	1/2" x 1/4"	1.24	1.30	0.59	0.17	----
20085N*	1/2″ x 3/8″	1.20	1.24	0.59	0.18	----
20092N*	1/2″ x 1/2″	1.20	1.42	0.83	0.24	----

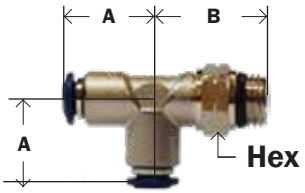
W169PL **87110**

FEMALE SWIVEL ELBOW



PART #	TUBE O.D. X FEMALE NPTF	A	B	HEX	
20094N	5/32" x 1/8"	0.669	0.994	0.354	----
20089N	1/4" x 1/8"	0.826	1.023	0.433	----
20090N	1/4" x 1/4"	0.826	1.200	0.433	----
20762N	3/8" x 1/8"	0.885	1.082	0.511	----
20091N	3/8" x 1/4"	0.885	1.240	0.511	----

SWIVEL MALE RUN TEE



▪ Can be purchased with NPTF threads upon request

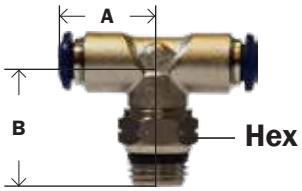
PART #	TUBE O.D. X MALE GLOBAL THREAD	A	B	HEX	APPROX. WT. LBS.	
20095N	1/8" x 1/8"	0.67	0.81	0.51	0.05	----
20851N	1/8" x 1/4"	0.67	0.95	0.59	0.06	----
20852N	5/32" x 1/8"	0.67	0.79	0.51	0.07	----
20853N	5/32" x 1/4"	0.67	0.95	0.59	0.07	----
20162N	1/4″ x 1/8″	0.83	0.87	0.51	0.09	----
20163N	1/4″ x 1/4″	0.83	0.98	0.59	0.11	----
20164N	1/4" x 3/8"	0.83	1.10	0.59	0.11	----
20159N	3/8" x 1/8"	1.04	1.07	0.59	0.12	----
20168N	3/8" x 1/4"	1.04	1.10	0.59	0.12	----
20165N	3/8″ x 3/8″	1.04	1.18	0.67	0.12	----
20181N	3/8" x 1/2"	1.20	1.24	0.59	0.15	----
20174N	1/2″ x 1/4″	1.20	1.24	0.59	0.16	----
20166N	1/2″ x 3/8″	1.20	1.30	0.67	0.14	----
20167N	1/2" x 1/2"	1.20	1.42	0.83	0.17	----

W171PL **87222**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS
BRASS FITTINGS

SWIVEL MALE BRANCH TEE



GLOBAL THREAD
NPT • BSPT • RC • NPTF • BSPP • G

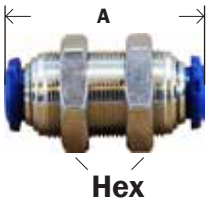
▪ Can be purchased with NPTF threads upon request

* Available in stainless steel

PART #	TUBE O.D. X MALE GLOBAL THREAD	A	B	HEX	APPROX. WT. LBS.	
20103N	1/8″ x 1/8″	0.67	0.78	0.51	0.04	----
20104N	5/32″ x 10-32″	0.67	0.79	0.31	0.04	----
20109N	5/32" x 1/8"	0.70	0.79	0.51	0.06	----
20850N	5/32" x 1/4"	0.67	1.00	0.59	0.06	----
20105N	1/4″ x 1/8″	0.83	0.87	0.51	0.08	----
20106N	1/4″ x 1/4″	0.83	0.98	0.59	0.10	----
20156N	1/4" x 3/8"	1.043	1.10	0.59	0.18	----
20157N	3/8" x 1/8"	1.04	1.08	0.59	0.18	----
20107N	3/8″ x 1/4″	1.04	1.10	0.59	0.18	----
20108N	3/8″ x 3/8″	1.04	1.18	0.67	0.16	----
20158N	3/8" x 1/2"	1.04	1.30	0.82	0.18	----
20112N	1/2" x 1/4"	1.20	1.24	0.59	0.23	----
20110N	1/2″ x 3/8″	1.20	1.30	0.67	0.24	----
20111N	1/2″ x 1/2″	1.20	1.42	0.82	0.28	----

W172PL **87210**

BULKHEAD UNION

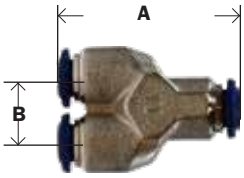


* Available in stainless steel

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	
20124N	1/8"	1.03	0.55	0.04	----
20125N*	5/32"	1.22	0.67	0.05	----
20127N*	1/4″	1.38	0.67	0.06	----
20123N*	5/16″	1.45	0.74	0.08	----
20128N*	3/8″	1.69	0.94	0.13	----
20129N*	1/2"	1.93	1.02	0.15	----

62PLBH **88050**

UNION "Y"



PART #	TUBE O.D.	A	B	APPROX. WT. LBS.	
20553N	1/4″ x 1/4″	1.44	0.53	0.14	----

662PL **88310**

REDUCER

PART #	TUBE O.D. 2	TUBE O.D. 1	A	
20510N	1/4"	1/8"	1.142	----
20511N	1/4"	5/32"	1.181	----
20512N	3/8"	1/4"	1.496	----
20513N	1/2"	1/4"	1.693	----
20514N	1/2"	3/8"	1.693	----

67PPL **88700**

Also available:
- Nylon plug
- Single banjo
- Double banjo
- Push fit cartridges and tools

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

CHROME PLATED BRASS MINI BALL VALVES

- Compact Design
- Max Working Pressure 250 psi
- Optional colors of handle plate for identification

PUSH-IN X PUSH-IN

PART #	SIZE	BOX/CASE	WGT.	
28400	1/8	30/300	.07	----
28401	1/4	30/300	.10	----
28402	3/8	20/200	.21	----

PUSH-IN X MALE PIPE

PART #	SIZE TUBE X MIP	BOX/ CASE	WGT.	
28403	5/32 x 1/8	30/300	.08	----
28407	1/4 x 1/8	30/300	.08	----
28404	1/4 x 1/4	30/300	.10	----
28405	3/8 x 3/8	20/200	.17	----

FIP X FIP

PART #	SIZE	BOX/CASE	WGT.	
46650	1/8	30/300	.11	----
46651	1/4	30/300	.10	----
46652	3/8	20/200	.14	----
46653	1/2	15/150	.25	----

MIP X FIP

PART #	SIZE	BOX/CASE	WGT.	
46660	1/8	30/300	.11	----
46661	1/4	30/300	.10	----
46662	3/8	20/200	.14	----
46663	1/2	15/150	.25	----

PANEL MOUNT DESIGN

FIP X FIP ANGLE

PART #	SIZE	BOX/CASE	WGT.	
46670	1/8	20/200	.19	----
46671	1/4	20/200	.20	----
46672	3/8	25/250	.11	----

3-WAY FIP - OPEN CENTER

PART #	SIZE	BOX/CASE	WGT.	
466900	1/8	25/250	.13	----
466901	1/4	20/200	.21	----
466902	3/8	20/200	.21	----

3-WAY FIP - CLOSED CENTER

PART #	SIZE	BOX/CASE	WGT.	
46680	1/8	25/250	.13	----
46681	1/4	20/200	.21	----
46682	3/8	20/200	.21	----

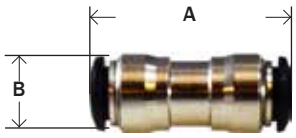
See page 198-200 for more mini ball valves
Stainless Steel mini ball valves on page 212 and 213

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED METRIC PUSH-IN FITTINGS

BRASS FITTINGS

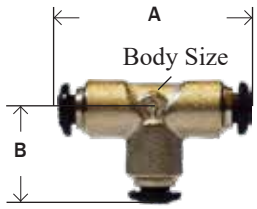
UNION



PART #	TUBE O.D. (MM)	TUBE O.D. (MM)	A	B	
20723N	3		1.014	0.332	----
20600N*	4		1.190	0.410	----
20724N	5		1.287	0.449	----
20725N	6	4	1.248	0.488	----
20601N*	6		1.326	0.488	----
20726N	8	6	1.365	0.566	----
20727N*	8		1.404	0.566	----
20728N	10	8	1.638	0.683	----
20603N*	10		1.638	0.683	----
20729N	12	10	1.833	0.800	----
20604N*	12		1.833	0.800	----
20730N	14		1.911	0.839	----

* Available in SS

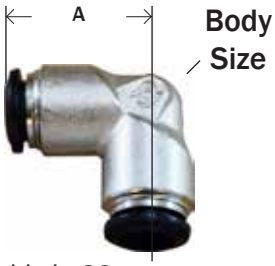
UNION TEE



PART #	TUBE O.D. (MM)	A	B	BODY SIZE	
20741N	3	1.326	0.663	0.351	----
20610N*	4	1.326	0.663	0.351	----
20742N	5	1.560	0.780	0.429	----
20611N*	6	1.638	0.819	0.429	----
20612N*	8	1.755	0.878	0.507	----
20613N*	10	2.067	1.034	0.624	----
20614N*	12	2.379	1.190	0.741	----
20743N	14	2.379	2.535	0.741	----

* Available in SS

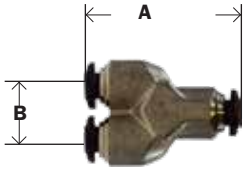
UNION ELBOW



PART #	TUBE O.D. (MM)	A	BODY SIZE	
20738N	3	0.663	0.51	----
20206N*	4	0.663	0.351	----
20739N	5	0.780	0.429	----
20660N*	6	0.780	0.429	----
20661N*	8	0.878	0.507	----
20807N*	10	1.034	0.624	----
20808N*	12	1.190	0.741	----
20740N	14	1.268	0.741	----

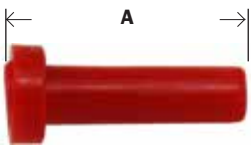
* Available in SS

UNION Y



PART #	TUBE O.D. (MM)	B	A	
20744N	3	0.390	1.131	----
20813N	4	0.429	1.248	----
20745N	5	0.527	1.365	----
20814N	6	0.527	1.424	----
20815N	8	0.605	1.599	----
20746N	10	0.728	1.890	----

PLUG



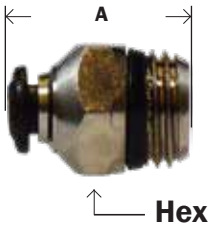
PART #	TUBE O.D. (MM)	A	
20748N	4	0.917	----
20749N	5	0.956	----
20750N	6	0.956	----
20751N	8	1.014	----
20752N	10	1.112	----
20753N	12	1.190	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED METRIC PUSH-IN FITTINGS
BRASS FITTINGS

NICKEL PLATED METRIC PUSH-IN FITTINGS

METRIC TUBE STRAIGHT MALE

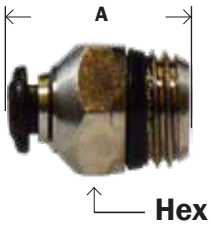


- Can be purchased with BSPP or BSPT Threads

* Available in SS

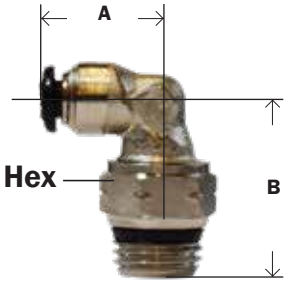
PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	HEX	
20630N*	4	1/8"	0.702	0.429	----
20631N*	4	1/4"	0.760	0.546	----
20700N	5	1/8"	0.78	0.429	----
20701N	5	1/4"	0.78	0.546	----
20632N*	6	1/8"	0.78	0.546	----
20633N*	6	1/4"	0.819	0.546	----
20628N	6	3/8"	0.90	0.546	----
20629N	6	1/2"	0.92	0.546	----
20702N*	8	1/8"	0.955	0.546	----
20634N*	8	1/4"	0.858	0.546	----
20635N	8	3/8"	0.897	0.663	----
20703N	8	1/2"	0.897	0.663	----
20636N*	10	1/4"	1.092	0.663	----
20637N*	10	3/8"	1.092	0.663	----
20704N*	10	1/2"	1.014	0.663	----
20801N	12	1/4"	1.267	0.78	----
20638N*	12	3/8"	1.267	0.78	----
20705N*	12	1/2"	1.209	0.78	----
20706N	14	3/8"	1.287	0.858	----
20707N	14	1/2"	1.248	0.858	----

METRIC TUBE INTERNAL HEX



PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	HEX	
20619N	3	M5	0.31	0.31	----
20620N	4	1/8"	0.71	0.43	----
20621N*	4	M5	0.39	0.38	----
20622N	4	M7 x 1"	0.83	0.38	----
20623N	6	1/4"	0.83	0.55	----
20624N	6	1/8"	0.85	0.47	----
20625N*	6	M5	0.47	0.47	----
20626N	8	1/4"	0.88	0.55	----
20627N	8	1/8"	0.98	0.55	----

METRIC TUBE SWIVEL MALE ELBOW



- Can be purchased with BSPP or BSPT Threads

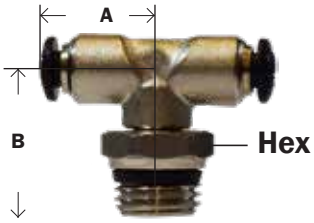
* Available in SS w BSPP or BSPT Threads

PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	B	HEX	
20708N*	4	1/8"	0.663	0.780	0.507	----
20709N*	4	1/4"	0.663	0.936	0.585	----
20710N	5	1/8"	0.780	0.858	0.507	----
20642N*	6	1/8"	0.819	0.858	0.507	----
20803N*	6	1/4"	0.819	0.975	0.585	----
20711N*	8	1/8"	0.878	0.917	0.507	----
20805N*	8	1/4"	0.878	1.014	0.585	----
20655N	8	3/8"	0.878	1.092	0.663	----
20712N	8	1/2"	0.878	1.404	0.819	----
20656N*	10	1/4"	1.034	1.092	0.585	----
20657N*	10	3/8"	1.034	1.170	0.663	----
20713N*	10	1/2"	1.034	1.287	0.819	----
20658N*	12	3/8"	1.190	1.287	0.663	----
20659N*	12	1/2"	1.190	1.404	0.819	----
20714N	14	3/8"	1.268	1.404	0.663	----
20715N	14	1/2"	1.268	1.443	0.819	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED METRIC PUSH-IN FITTINGS
BRASS FITTINGS

METRIC TUBE SWIVEL MALE BRANCH TEE

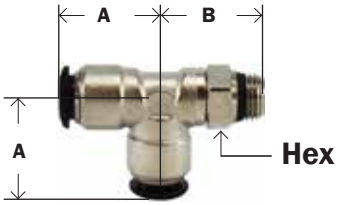


PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	B	HEX	
20680N*	4	1/8"	0.663	0.780	0.507	----
20716N*	4	1/4"	0.663	0.936	0.585	----
20717N	5	1/8"	0.78	0.858	0.507	----
20682N*	6	1/8"	0.819	0.858	0.507	----
20683N*	6	1/4"	0.819	0.975	0.585	----
20809N*	8	1/8"	0.877	0.917	0.507	----
20684N*	8	1/4"	0.877	1.014	0.585	----
20690N	8	3/8"	0.886	1.024	0.585	----
20691N	8	1/2"	0.886	1.122	0.585	----
20686N*	10	1/4"	1.033	1.092	0.585	----
20687N*	10	3/8"	1.033	1.170	0.663	----
20810N*	10	1/2"	1.033	1.287	0.819	----
20688N*	12	3/8"	1.189	1.287	0.663	----
20689N*	12	1/2"	1.189	1.404	0.819	----
20718N	14	3/8"	1.267	1.404	0.663	----
20719N	14	1/2"	1.267	1.443	0.819	----

- Can be purchased with BSPP or BSPT threads

* Available in SS w/BSPP or BSPT threads

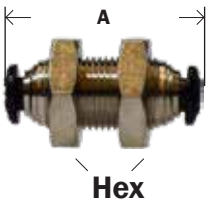
METRIC TUBE SWIVEL MALE RUN TEE



PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	B	HEX	
20670N	4	1/8"	0.663	0.780	0.507	----
20720N	4	1/4"	0.663	0.936	0.585	----
20721N	5	1/8"	0.780	0.858	0.507	----
20672N	6	1/8"	0.819	0.858	0.507	----
20673N	6	1/4"	0.819	0.975	0.585	----
20811N	8	1/8"	0.819	0.917	0.507	----
20674N	8	1/4"	0.878	1.014	0.585	----
20668N	8	3/8"	0.885	1.063	0.585	----
20669N	8	1/2"	0.885	1.063	0.585	----
20676N	10	1/4"	0.878	1.092	0.585	----
20677N	10	3/8"	1.034	1.170	0.663	----
20722N	10	1/2"	1.034	1.287	0.819	----
20678N	12	3/8"	1.190	1.287	0.663	----
20679N	12	1/2"	1.190	1.404	0.819	----

- Can be purchased with BSPP threads

BULKHEAD



PART #	TUBE O.D. (MM)	M	A	HEX	
20731N	3	M10x1	1.014	0.546	----
20732N*	4	MI2x1	1.229	0.663	----
20733N	5	M14x1	1.287	0.663	----
20734N*	6	M14x1	1.365	0.663	----
20735N*	8	M16x1	1.443	0.741	----
20736N*	10	M20x1	1.677	0.936	----
20737N*	12	M22x1	1.872	1.014	----

* Available in SS

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPOSITE BODY PUSH-IN FITTINGS

▪ For Food Grade,
see page 340-343

Specifications

Fluid admitted	Air
Working pressure range	0-150 PSI (10BAR)
Min. Burst pressure	340PSI (23BAR)
Working Temperature range	0°F ~160°F

Materials of Construction:

1	Body	Composite Polyacetal (hemopolymer,copolymer)
2	Body	Brass
3	Tube Release	Acetal Resin
4	Retainer	Brass
5	Gripper Ring	Stainless Steel
6	Spacer	Brass
7	O-Ring	NBR 70
8	Threads	Brass w/ white sealant

The latest generation of composite material is used in the body construction in addition to brass on threaded components and stainless steel on the tube gripper.

▪ **Tolerance**
+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

May you live all the days of your life.

- Jonathan Swift

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COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

UNION

PART #	TUBE O.D.	APPROX. WT. LBS.	
20017C	1/8"	0.01	----
20018C	5/32"	0.01	----
20001C	3/16"	0.01	----
20019C	1/4″	0.01	----
20015C	5/16"	0.01	----
20020C	3/8″	0.02	----
20021C	1/2"	0.03	----
20016C	1/4" x 5/32"	0.01	----
20515C	5/16" x 1/4"	0.01	----
20022C	3/8" x 1/4"	0.01	----
20516C	3/8" x 5/16"	0.02	----
20024C	1/2" x 3/8"	0.03	----

PQ62P

UNION TEE

PART #	TUBE O.D.	APPROX. WT. LBS.	
20025C	1/8"	0.01	----
20026C	5/32"	0.01	----
20027C	3/16"	0.02	----
20028C	1/4″	0.02	----
20031C	5/16"	0.02	----
20029C	3/8″	0.02	----
20030C	1/2"	0.08	----

PQ64P

90° UNION ELBOW

PART #	TUBE O.D.	APPROX. WT. LBS.	
20150C	1/8"	0.01	----
20151C	5/32"	0.01	----
20149C	3/16"	0.01	----
20152C	1/4″	0.02	----
20155C	5/16"	0.02	----
20153C	3/8″	0.02	----
20154C	1/2"	0.02	----

PQ65P

UNION "Y" CONNECTOR

PART #	TUBE O.D.	APPROX. WT. LBS.	
20551C	5/32"	0.01	----
20553C	1/4″	0.02	----
20182C	5/16"	0.02	----
20555C	3/8″	0.02	----
20185C	1/2	0.07	----

PQ89P

FEMALE CONNECTOR

- Brass

PART #	TUBE O.D. X FEMALE NPT	APPROX. WT. LBS.	
20034C	1/4″ x 1/8″	0.02	----
20035C	1/4″ x 1/4″	0.04	----
20036C	3/8″ x 1/4″	0.04	----
20037C	3/8″ x 3/8″	0.06	----

PQ66P

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COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

MALE CONNECTOR

- Nickel Plated

- See broader range of sizes on page 104 N/P push-in fittings

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	
20050C	5/32" x 1/8"	0.02	----
20053C	1/4" x 10-32"	0.02	----
20054C	1/4" x 1/8"	0.02	----
20055C	1/4" x 1/4"	0.02	----
20056C	1/4" x 3/8"	0.04	----
20530C	5/16" x 1/8"	0.05	----
20531C	5/16" x 1/4"	0.05	----
20057C	3/8" x 1/8"	0.05	----
20058C	3/8" x 1/4"	0.06	----
20059C	3/8" x 3/8"	0.06	----
20062C	3/8" x 1/2"	0.08	----
20060C	1/2" x 1/4"	0.06	----
20061C	1/2" x 3/8"	0.08	----
20063C	1/2" x 1/2"	0.10	----

PQ68P

SWIVEL MALE ELBOW

- Swivels for installation only.
- Not a live swivel

* Global Thread

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	
20079C	1/8" x 1/8"	0.01	----
20535C*	1/8" x 1/4"	0.01	----
20517C*	3/16" x 1/4"	0.01	----
20080C*	5/32" x 1/8"	0.01	----
20077C*	5/32" x 1/4"	0.01	----
20049C*	5/32" x 10/32"	0.01	----
20078C	1/4" x 10-32	0.01	----
20081C	1/4" x 1/8"	0.02	----
20082C	1/4" x 1/4"	0.04	----
20086C	1/4" x 3/8"	0.06	----
20518C*	1/4" x 1/2"	0.07	----
20537C	5/16" x 1/8"	0.04	----
20538C	5/16" x 1/4"	0.04	----
20539C*	5/16" x 3/8"	0.06	----
20087C	3/8" x 1/8'	0.04	----
20083C	3/8" x 1/4"	0.08	----
20084C	3/8" x 3/8"	0.10	----
20088C	3/8" x 1/2"	0.12	----
20184C	1/2" x 1/4"	0.14	----
20085C	1/2" x 3/8"	0.16	----
20092C*	1/2" x 1/2"	0.18	----

PQ69PS

LONG PATTERN MALE ELBOWS

PART #	TUBE O.D. X THREAD	APPROX. WT. LBS.	
20572C	1/4 X 1/8	0.03	----
20573C	1/4 X 1/4	0.05	----
20574C	1/4 X 3/8	0.06	----
20579C	3/8 X 1/4	0.09	----
20580C	3/8 X 3/8	0.12	----
20581C	3/8 X 1/2	0.14	----
20582C	1/2 X 1/4	0.16	----
20583C	1/2 X 3/8	0.18	----
20584C	1/2 X 1/2	0.20	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

FEMALE SWIVEL ELBOWS

PART #	TUBE O.D. X FEMALE NPT	APPROX. WT. LBS.	
20089C	1/4 X 1/8	0.05	----
20090C	1/4 X 1/4	0.06	----
20591C	1/4 X 3/8	0.07	----
20091C	3/8 X 1/4	0.10	----
20595C	3/8 X 3/8	0.14	----
20596C	3/8 X 1/2	0.15	----
20597C	1/2 X 3/8	0.20	----
20598C	1/2 X 1/2	0.23	----

45° SWIVELS

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	
20139C	1/4 X 1/8	0.04	----
20140C	1/4 X 1/4	0.05	----

SWIVEL MALE RUN TEE

- Swivels for installation only.

* Global Thread

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	
20160C*	1/8" x 1/8"	0.03	----
20833C*	1/8" x 1/4"	0.03	----
20835C*	5/32" x 10-32	0.03	----
20162C	1/4" x 1/8"	0.04	----
20163C	1/4" x 1/4"	0.04	----
20834C*	1/4" x 10-32	0.04	----
20099C	3/8" x 1/8"	0.06	----
20100C	3/8" x 1/4"	0.08	----
20165C	3/8" x 3/8"	0.10	----
20181C	3/8 x 1/2	0.12	----
20174C	1/2 x 1/4	0.12	----
20166C	1/2 x 3/8	0.14	----
20167C	1/2 x 1/2	0.16	----

PQ71PS

SWIVEL MALE BRANCH TEE

- Swivels for installation only.
- Not a live swivel

* Global Thread

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	
20103C*	1/8" x 1/8"	0.02	----
20519C*	1/8" x 1/4"	0.03	----
20109C*	5/32" x 1/8"	0.02	----
20135C*	5/32" x 1/4"	0.03	----
20104C*	5/32" x 10/32"	0.03	----
20830C*	3/16" x 1/8"	0.03	----
20105C	1/4" x 1/8"	0.04	----
20106C	1/4" x 1/4"	0.06	----
20831C*	1/4" x 10/32"	0.06	----
20121C	1/4" x 3/8"	0.08	----
20136C*	5/16" x 1/8"	0.04	----
20137C*	5/16" x 1/4"	0.05	----
20832C*	5/16" x 3/8"	0.06	----
20107C	3/8" x 1/4"	0.10	----
20108C	3/8" x 3/8"	0.12	----
20158C*	3/8 X 1/2	0.14	----
20138C*	1/2 X 1/4	0.14	----
20110C	1/2 X 3/8	0.16	----
20111C	1/2 X 1/2	0.21	----

PQ72PS

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

BULKHEAD UNION

PART #	TUBE O.D.	APPROX. WT. LBS.	
20127C	1/4″	0.04	----
20128C	3/8″	0.06	----
20129C	1/2"	0.10	----

PQ82P

BULKHEAD FEMALES

PART #	TUBE O.D. X THREAD	APPROX. WT. LBS.	
20170C	1/4 X 1/8	0.04	----
20171C	1/4 X 1/4	0.04	----
20172C	3/8 X 1/4	0.06	----
20173C	3/8 X 3/8	0.07	----
20175C	1/2 X 1/4	0.07	----
20176C	1/2 X 3/8	0.09	----
20179C	1/2 X 1/2	0.10	----

SWIVEL "Y" CONNECTOR

▪ Swivels for installation only. ▪ Not a live swivel

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	
20187C	1/4 X 1/8	0.02	----
20557C	1/4″ x 1/4″	0.02	----
20188C	3/8 X 1/4	0.04	----
20189C	3/8 X 3/8	0.04	----
20193C	3/8 X 1/2	0.07	----
20194C	1/2 X 3/8	0.06	----
20195C	1/2 X 1/2	0.09	----

PQ88PS

IN-LINE NEEDLE VALVE

PART #	TUBE O.D.	APPROX. WT. LBS.	
20487C	1/4″	0.04	----
20488C	5/16″	0.05	----
20489C	3/8″	0.06	----

PQ310C

RIGHT ANGLE FLOW CONTROL METER IN

▪ Free flow out

▪ Marked w/V

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	
20727C	1/4 X 1/8	0.04	----
20728C	1/4″ x 1/4″	0.04	----
20780C	3/8 X 1/4	0.06	----
20781C	3/8 X 3/8	0.06	----
20782C	1/2 X 1/2	0.10	----

JPQ

RIGHT ANGLE FLOW CONTROL METER OUT

▪ Free flow in

▪ Marked w/C

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	
20785C	1/4 x 1/8	0.04	----
20786C	1/4 x 1/4	0.04	----
20787C	3/8 x 1/4	0.06	----
20788C	3/8 x 3/8	0.06	----
20789C	1/2 x 1/2	0.10	----

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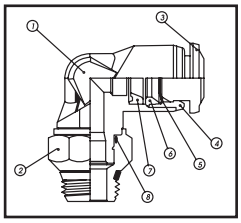
METRIC COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

Technical Characteristics



PART 1	BODY	COMPOSITE
PART 2	BODY	NICKEL PLATED BRASS
PART 3	TUBE RELEASE	ACETAL RESIN
PART 4	RETAINER	NICKEL PLATED BRASS
PART 5	GRIPPER RING	STAINLESS STEEL
PART 6	SPACER	COMPOSITE
PART 7	THREAD PACKING	NBR 70
PART 8	O-RING	NBR 70
PART 9	THREAD SEAL	NBR70

Operating Range

Pressure: 0 to 220 PSI (15 bar)

Vacuum: 0 to 29hg (-.99 bar)

Temperature

-5^0 F to + 175^0 F (-20^0 C to + 80^0 C)

Media

Compressed air.

Non-toxic fluids (water)

Materials

The latest generation of composite material is used in the body construction in addition to nickel-plated brass on threaded components and stainless steel on the tube gripper.

UNION

PART #	TUBE O.D. (MM)	
20600	4	----
20601	6	----
20602	8	----
20603	10	----
20604	12	----

UNION TEE

PART #	TUBE O.D. (MM)	
20610	4	----
20862	5	----
20611	6	----
20612	8	----
20613	10	----
20614	12	----
20861	14	----

3104

UNION ELBOW

PART #	TUBE O.D. (MM)	
20806	4	----
20660	6	----
20661	8	----
20807	10	----
20808	12	----
20740	14	----

3102

MALE ADAPTER

PART #	TUBE OD (MM)	BSPT THREAD	
20630	4	1/8″	----
20631	4	1/4″	----
20632	6	1/8″	----
20633	6	1/4″	----
20634	8	1/4″	----
20635	8	3/8″	----
20636	10	1/4″	----
20637	10	3/8″	----
20801	12	1/4″	----
20638	12	3/8″	----

3175

NOTE: See page 102 for a complete line of male adapters with global thread.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

METRIC COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

SWIVEL ELBOW

PART #	TUBE OD (MM)	BSPT THREAD	
20690*	4	M5	----
20856*	4	1/8"	----
20855*	4	1/4"	----
20692*	5	M5	----
20857*	5	1/8"	----
20859*	6	M5	----
20642	6	1/8″	----
20803	6	1/4″	----
20698*	6	3/8"	----
20699*	6	1/2"	----
20711*	8	1/8"	----
20805	8	1/4″	----
20655	8	3/8"	----
20712*	8	1/2"	----
20656	10	1/4"	----
20657	10	3/8"	----
20713*	10	1/2"	----
20790	12	1/4"	----
20658	12	3/8"	----
20659	12	1/2"	----
20714*	14	3/8"	----
20854*	14	1/2"	----

* Global Thread
- BSPP Available

SWIVEL BRANCH TEE

PART #	TUBE OD (MM)	BSPT THREAD	
20680*	4	1/8″	----
20860*	4	1/4"	----
20717*	5	1/8"	----
20682	6	1/8″	----
20683	6	1/4″	----
20809	8	1/8"	----
20684	8	1/4"	----
20685	8	3/8"	----
20686	10	1/4"	----
20687	10	3/8"	----
20810	10	1/2"	----
20688	12	3/8"	----
20689	12	1/2"	----
20718*	14	3/8"	----
20719*	14	1/2"	----

* Global Thread
- BSPP Available

SWIVEL RUN TEE

PART #	TUBE OD (MM)	BSPT THREAD	
20670	4	1/8″	----
20720*	4	1/4"	----
20721*	5	1/8"	----
20672	6	1/8″	----
20673	6	1/4″	----
20811	8	1/8"	----
20674	8	1/4"	----
20675	8	3/8"	----
20676	10	1/4"	----
20677	10	3/8"	----
20678	12	3/8"	----
20679	12	1/2"	----

* Global Thread
- BSPP Available

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

METRIC COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

UNION WYE

PART #	TUBE OD (MM)	
20813	4	----
20814	6	----
20815	8	----
20746	10	----
20802	12	----

SWIVEL MALE WYE

PART #	TUBE OD (MM)	GLOBAL THREAD	
20816	4	1/8"	----
20821*	4	1/4"	----
20817*	6	1/8"	----
20818	6	1/4"	----
20819*	8	1/8"	----
20820*	8	1/4"	----
20822*	8	3/8"	----
20823*	10	1/4"	----
20824*	10	3/8"	----
20825*	10	1/2"	----
20826*	12	3/8"	----
20827*	12	1/2"	----

* Global Thread
▪ BSPP Available

Also available:
- 45° elbow swivel
- 4 position Y
- Manifolds
- Extended swivel elbows
- Bulkhead union
- Plug-in elbows and tees

A man's ancestry is a positive property to him.

- Edward Bulwer-Lytton

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. PUSH-IN TUBE FITTINGS

Meets D.O.T. FMVSS 571.106 SAE J1131 Air Brake System Require-

Benefits for Cost Savings & Engineering Project

- **Fast assembly:** No tools required. Simply push tubing in. Saves up to 75% of assembly time compared to standard air compression fittings. No loose parts to handle.
- **Fast disconnect:** Hold the collet collar with two fingers and pull out tube. No tools required.
- **Reusable:** Can be connected and disconnected several times.
- **Reliable sealing:** Using recommended tubing, full sealing is guaranteed.
- **Versatility:** Buna N O'ring standard. Viton and others available per request. Secure tube retention. Pulling on tubing only serves to tighten the connection.
- **Pre-Applied Teflon®** based pipe sealant on all male pipe threads, saving customer additional labor.
- **Full Flow Design,** provides more flow area than con-

DOT Fittings are constructed with an all brass captive eyelet which allows for maximum flow. The brass captive eyelet with extended length is floating and has a machined top end radius for easy installation of tubing. All male threads have a pre-applied Teflon® based pipe sealant to provide for easy assembly and leak proof seal.

- **Materials:**

Brass
"O" Ring: Buna - Nitrile (90 Durometer)
EP (Ethylene Propylene)

- **Working Pressures & Temperature Ranges**

Vacuum to 150 PSI
-40°F to 200° F (-40°C to +93°C)

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

D.O.T. PUSH-IN
BRASS FITTINGS

PLUG

AQ59DOT

PART #	TUBE O.D.	APPROX. WT. LBS.	
595320	5/32″	0.01	----
590400	1/4″	0.02	----
590600	3/8″	0.02	----
590800	1/2″	0.04	----

1829 **DQ59DOT** 639PMT

UNION

AQ62DOT
DQ62

PART #	TUBE O.D.	APPROX. WT. LBS.	
620532	5/32″	0.06	----
620400	1/4″	0.06	----
620600	3/8″	0.13	----
620604	3/8" x 1/4"	0.15	----
620800	1/2″	0.19	----
621000	5/8″	0.30	----
621200	3/4″	0.44	----

AQ62DOT **62PMT** 1862 **DQ62DOT**

UNION TEE

AQ64DOT
DQ64

PART #	TUBE O.D.	APPROX. WT. LBS.	
640400	1/4″	0.09	----
640600	3/8″	0.16	----
640800	1/2″	0.25	----
641000	5/8"	0.32	----
641200	3/4"	0.36	----

AQ64DOT **164 PMT** 1864 **DQ64DOT**

UNION ELBOW

AQ65DOT
DQ65

PART #	TUBE O.D.	APPROX. WT. LBS.	
655320	5/32″	0.03	----
650400	1/4″	0.06	----
650600	3/8″	0.12	----
650800	1/2″	0.18	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FEMALE CONNECTOR

AQ66DOT
DQ66

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	
660402	1/4″ x 1/8″	0.06	----
660404	1/4″ x 1/4″	0.10	----
660602	3/8″ x 1/8″	0.11	----
660604	3/8″ x 1/4″	0.11	----
660606	3/8″ x 3/8″	0.17	----
660804	1/2″ x 1/4″	0.14	----
660806	1/2″ x 3/8″	0.16	----
660808	1/2″ x 1/2″	0.25	----

AQ66DOT **66PMT** 1866 **DQ66DOT**

MALE CONNECTOR

AQ68DOT
DQ68

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
685320	5/32″ x 10/32″	0.02	----
685321	5/32″ x 1/16″	0.02	----
685322	5/32″ x 1/8″	0.02	----
680302	3/16″ x 1/8″	0.02	----
680421	1/4" x 1/16"	0.02	----
680402	1/4″ x 1/8″	0.03	----
680404	1/4″ x 1/4″	0.04	----
680406	1/4″ x 3/8″	0.07	----
680602	3/8″ x 1/8″	0.06	----
680604	3/8″ x 1/4″	0.07	----
680606	3/8″ x 3/8″	0.06	----
680608	3/8″ x 1/2″	0.13	----
680804	1/2″ x 1/4″	0.11	----
680806	1/2″ x 3/8″	0.12	----
680808	1/2″ x 1/2″	0.14	----
681006	5/8″ x 3/8″	0.18	----
681008	5/8″ x 1/2″	0.18	----
681208	3/4″ x 1/2″	0.20	----
681212	3/4″ x 3/4″	0.20	----

AQ68DOT **68PM** 1868 **DQ68DOT** 68PMT

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. PUSH-IN
BRASS FITTINGS

MALE ELBOW

Forged

AQ69DOT
DQ69

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
695302	5/32" x 1/16"	0.03	----
695322	5/32" x 1/8"	0.03	----
690302	3/16" x 1/8"	0.03	----
690402	1/4" x 1/8"	0.08	----
690404	1/4" x 1/4"	0.06	----
690406	1/4" x 3/8"	0.11	----
690602	3/8" x 1/8"	0.08	----
690604	3/8" x 1/4"	0.09	----
690606	3/8" x 3/8"	0.11	----
690608	3/8" x 1/2"	0.20	----
690804	1/2" x 1/4"	0.22	----
690806	1/2" x 3/8"	0.22	----
690808	1/2" x 1/2"	0.24	----
691006	5/8" x 3/8"	0.30	----
691008	5/8" x 1/2"	0.32	----
691208	3/4" x 1/2"	0.32	----
691212	3/4" x 3/4"	0.34	----

AQ69DOT **169 PMTNS** 1869 **DQ69DOT**

MALE SWIVEL ELBOW

AQ62DOTS
DQ69S

Forged

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
695322S	5/32" x 1/8"	0.07	----
690402S	1/4" x 1/8"	0.06	----
690404S	1/4" x 1/4"	0.10	----
690406S	1/4" x 3/8"	0.10	----
690602S	3/8" x 1/8"	0.10	----
690604S	3/8" x 1/4"	0.11	----
690606S	3/8" x 3/8"	0.12	----
690608S	3/8" x 1/2"	0.20	----
690804S	1/2" x 1/4"	0.16	----
690806S	1/2" x 3/8"	0.18	----
690808S	1/2" x 1/2"	0.26	----
691006S	5/8" x 3/8"	0.28	----
691008S	5/8" x 1/2"	0.30	----
691208S	3/4" x 1/2"	0.50	----
691212S	3/4" x 3/4"	0.56	----

AQ69DOTS **169PMT** 1869 **DQ69DOTS**

A mind becomes a detriment when it acquires more intelligence than its integrity can handle.

– Cullen Hightower

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FEMALE ELBOW

Forged

AQ70DOTS
DQ70

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	
700402	1/4″ x 1/8″	0.06	----
700404	1/4″ x 1/4″	0.10	----
700406	1/4″ x 3/8″	0.16	----
700602	3/8″ x 1/8″	0.15	----
700604	3/8″ x 1/4″	0.12	----
700606	3/8″ x 3/8″	0.17	----
700806	1/2″ x 3/8″	0.26	----
700808	1/2″ x 1/2″	0.30	----

AQ70DOTS **1870** DQ70DOTS **170PMTNS**

FEMALE SWIVEL ELBOW

AQ70DOTS

PART #	TUBE O.D. X FEMALE NPTF	
700404S	1/4″ x 1/4"	----

MALE RUN TEE

Forged

AQ71DOT
DQ71

PART #	TUBE O.D. X MALE NPTF (1 X 3) X 2	APPROX. WT. LBS.	
710402	1/4″ x 1/8″	0.06	----
71040604	(1/4" x 3/8") x 1/4"	0.20	----
710404	1/4″ x 1/4″	0.08	----
710604	3/8″ x 1/4″	0.20	----
71060404	(3/8" x 1/4") x 1/4"	0.20	----
710606	3/8″ x 3/8″	0.17	----
71060406	(3/8" x 1/4") x 3/8"	0.20	----
710608	3/8″ x 1/2″	0.14	----
710806	1/2″ x 3/8″	0.28	----

AQ71DOT **171PMTNS** 1871 **DQ71DOT**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. PUSH-IN
BRASS FITTINGS

MALE SWIVEL RUN TEE

Forged

AQ71DOTS
DQ71S

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
710402S	1/4" x 1/8"	0.09	----
710404S	1/4" x 1/4"	0.11	----
710604S	3/8" x 1/4"	0.15	----
710606S	3/8" x 3/8"	0.14	----
710804S	1/2" x 1/4"	0.24	----
710806S	1/2" x 3/8"	0.24	----
710808S	1/2" x 1/2"	0.30	----

AQ71DOTS **171PMT** 1871 **DQ71DOTS**

MALE 45° ELBOW

AQ54DOT
DQ54

Forged

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
540402	1/4" x 1/8"	0.06	----
540404	1/4" x 1/4"	0.06	----
540602	3/8" x 1/8"	0.08	----
540604	3/8" x 1/4"	0.09	----
540606	3/8" x 3/8"	0.11	----
540608	3/8" x 1/2"	0.15	----
540804	1/2" x 1/4"	0.13	----
540806	1/2" x 3/8"	0.16	----
540808	1/2" x 1/2"	0.18	----
541006	5/8" x 3/8"	0.22	----
541008	5/8" x 1/2"	0.21	----
541208	3/4" x 1/2"	0.28	----
541212	3/4" x 3/4"	0.32	----

AQ54DOT **179MTNS** 1880 **DQ54DOT**

MALE 45° SWIVEL ELBOW

AQ54DOTS
DQ54S

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
540402S	1/4" x 1/8"	0.06	----
540404S	1/4" x 1/4"	0.09	----
540602S	3/8" x 1/8"	0.10	----
540604S	3/8" x 1/4"	0.11	----
540606S	3/8" x 3/8"	0.13	----
540804S	1/2" x 1/4"	0.14	----
540806S	1/2" x 3/8"	0.16	----
540808S	1/2" x 1/2"	0.18	----
541008S	5/8" x 1/2"	0.24	----

AQ54DOTS **179PMT** 1880 **DQ54DOTS**

MALE BRANCH TEE

Forged

AQ72DOT
DQ72

PART #	TUBE O.D. X MALE NPTF (1 X 2) X 3	APPROX. WT. LBS.	
720302	3/16" x 1/8"	0.07	----
720402	1/4" x 1/8"	0.10	----
720404	1/4" x 1/4"	0.10	----
720604	3/8" x 1/4"	0.14	----
72060404	(3/8" x 1/4") x 1/4"	0.20	----
720606	3/8" x 3/8"	0.15	----
720804	1/2" x 1/4"	0.20	----
720806	1/2" x 3/8"	0.24	----
720808	1/2" x 1/2"	0.32	----
72100808	(5/8" x 1/2") x 1/2"	0.20	----

AQ72DOT **172PMTNS** 1872 **DQ72DOT**

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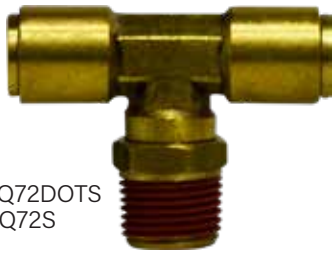
D.O.T. PUSH-IN
BRASS FITTINGS

MALE SWIVEL BRANCH TEE



AQ72DOTS
DQ72S

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
720402S	1/4" x 1/8"	0.12	----
720404S	1/4" x 1/4"	0.14	----
720602S	3/8" x 1/8"	0.19	----
720604S	3/8" x 1/4"	0.15	----
720606S	3/8" x 3/8"	0.17	----
720804S	1/2" x 1/4"	0.30	----
720806S	1/2" x 3/8"	0.34	----
720808S	1/2" x 1/2"	0.22	----

AQ72DOTS **172PMT** 1872 **DQ72DOTS**

FEMALE BRANCH TEE

AQ77DOT
DQ77

(RUN) BRANCH

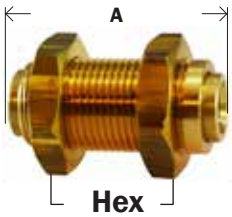
PART #	(1 & 2) X 3	
770402	1/4" x 1/8"	----
770404	1/4" x 1/4"	----
770604	3/8" x 1/4"	----

GLADHAND BULKHEAD CONNECTOR

TUBE OD X MALE NPTF

PART #	SIZE	
830808	1/2" x 1/2"	----

BULKHEAD UNION



AQ82DOT
DQ82

PART #	TUBE O.D.	APPROX. WT. LBS.	
820400	1/4"	0.16	----
820600	3/8"	0.21	----
820800	1/2"	0.14	----
821000	5/8"	0.30	----

AQ82DOT **62PMTBH** 1874 **DQ82DOT**

FEMALE BULKHEAD UNION

AQ86DOT
DQ86

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	
860402	1/4" x 1/8"	0.08	----
860404	1/4" x 1/4"	0.10	----
860604	3/8" x 1/4"	0.14	----
860606	3/8" x 3/8"	0.31	----
860808	1/2" x 1/2"	0.32	----

AQ86DOT **1873** DQ86DOT **66PMTBH**

- Jam nuts not available separately

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPOSITE BODY DOT AIRBRAKE FITTINGS

WARNING

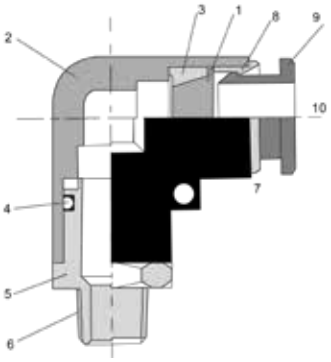
- Composite DOT push-to-connect fittings are designed only for use in applications where air is utilized as an operating fluid.
- Fittings must be used in accordance with manufacturer and industry specifications.
- They are not intended for use in environments exceeding 145psi or 140 degrees F.
- The Department of Transportation FMVSS 49CFR571-106 prohibits use of this type of fitting for connections between towed and towing vehicles or between a driveshaft and chassis.
- Using Composite DOT fittings in a manner inconsistent with manufacturer specifications may result in serious injury or property damage.
- Under no circumstances shall the supplier be liable to buyer for any consequential or incidental damages of any nature whatsoever arising from nonconformity of goods, defective goods, or delay in shipment or any other breach by seller.

Please feel free to email warning@compdotfitting.com with any questions or concerns.

- One touch connection reduces installation time and cost.
- Rugged ultraviolet and vibration resistant composite body.
- Various shapes and configurations to meet vehicle applications and make installations easier.

SPECIFICATIONS FOR FMVSS (D.O.T.) AND SAE COMPLIANT FITTINGS

Operating Fluid	Air						
Max. Operating Pressure	145psi (1.0MPa)						
Proof Pressure	Size	5/32"	1/4"	3/8"	1/2"	5/8"	3/4"
	At 75°F (24°C)	1200psi	1200psi	1400psi	950psi	900psi	800psi
	At 200 °F (93°C)	450psi (3.1MPa)					
Recommended Fluid and Ambient Temperature*	-40°F to 140°F (-40°C to 60°C)						
Leak Rate at -40°F (-40°C)	7 Ncm^3/min. or less						
Thread	Thread Portion	ANSI/ASME B1.20.1, 1983 R1992					
	Nut	JIS B 0208 (Unified fine thread) ISO 263					
Thread Sealant	Fluorine/ Acrylic						
Applicable Standards	D.O.T. FMVSS 49 CFR 571.106, SAE J2494-3						
Applicable Tubing	Tubing conforming to both SAE J844 and D.O.T. FMVSS 49 CFR 571.106. Material: Nylon12						
Tube O.D.	5/32", 1/4", 3/8", 1/2", 5/8", 3/4"						



1. Chuck	Stainless steel or Brass
2. Body	Polybutylene Terephthalate (PBT), Brass
3/4. Tube seal, O-Ring	Buna-N, Nitrile Rubber
5. Stud	Brass
6. Sealant	Flourine/ Acrylic
7. Guide	Stainless Steel or Polyacetal (Acetal)
8. Stabilization Ring	Stainless Steel
9. Release Button	Polyacetal, POM (Acetal)
10. Tube support	Stainless Steel/ Brass

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPOSITE BODY D.O.T. PUSH-IN
BRASS FITTINGS

STRAIGHT UNION

PART #	TUBE OD (INCH)	APPROX. WT. LBS.	
620532C	5/32	0.01	----
620400C	1/4	0.01	----
620600C	3/8	0.03	----
620800C	1/2	0.05	----
621000C	5/8	0.08	----

UNION TEE

PART #	TUBE OD (INCH)	APPROX. WT. LBS.	
645320C	5/32	0.02	----
640400C	1/4	0.02	----
640600C	3/8	0.05	----
640800C	1/2	0.07	----
641000C	5/8	0.13	----

UNION 90° ELBOW

PART #	TUBE OD (INCH)	APPROX. WT. LBS.	
655320C	5/32	0.01	----
650400C	1/4	0.02	----
650600C	3/8	0.04	----
650800C	1/2	0.05	----

FEMALE CONNECTOR

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	
665302C	5/32	1/8-27	0.04	----
665304C	5/32	1/4-18	0.06	----
660402C	1/4	1/8-27	0.04	----
660404C	1/4	1/4-18	0.06	----
660406C	1/4	3/8-18	0.10	----
660602C	3/8	1/8-27	0.07	----
660604C	3/8	1/4-18	0.07	----
660606C	3/8	3/8-18	0.11	----
660608C	3/8	1/2-14	0.12	----
660802C	1/2	1/8-27	0.11	----
660804C	1/2	1/4-18	0.13	----
660806C	1/2	3/8-18	0.12	----
660808C	1/2	1/2-14	0.13	----

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COMPOSITE BODY D.O.T. PUSH-IN

BRASS FITTINGS

STRAIGHT MALE CONNECTOR

PART #	APP. TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	
685301C	5/32	1/16-28	0.02	----
685302C	5/32	1/8-27	0.02	----
685304C	5/32	1/4-27	0.03	----
680402C	1/4	1/8-27	0.02	----
680404C	1/4	1/4-18	0.03	----
680406C	1/4	3/8-18	0.05	----
680602C	3/8	1/8-27	0.05	----
680604C	3/8	1/4-18	0.06	----
680606C	3/8	3/8-18	0.06	----
680608C	3/8	1/2-14	0.09	----
680804C	1/2	1/4-18	0.09	----
680806C	1/2	3/8-18	0.09	----
680808C	1/2	1/2-14	0.09	----
681006C	5/8	3/8-18	0.15	----
681008C	5/8	1/2-14	0.13	----
681208C	3/4	1/2-14	0.38	----

90° MALE ELBOW

- Fixed

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	
695322SC	5/32	1/8-27	0.03	----
690402SC	1/4	1/8-27	0.03	----
690404SC	1/4	1/4-18	0.04	----
690406SC	1/4	3/8-18	0.07	----
690602SC	3/8	1/8-27	0.07	----
690604SC	3/8	1/4-18	0.06	----
690606SC	3/8	3/8-18	0.08	----
690608SC	3/8	1/2-14	0.14	----
690804SC	1/2	1/4-18	0.07	----
690806SC	1/2	3/8-18	0.09	----
690808SC	1/2	1/2-14	0.14	----
691006SC	5/8	3/8-18	0.14	----
691008SC	5/8	1/2-14	0.18	----
691208SC	3/4	1/2-14	0.26	----

90° FEMALE ELBOW

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	
705302C	5/32	1/8-27	0.03	----
705304C	5/32	1/4-18	0.05	----
700402SC	1/4	1/8-27	0.03	----
700404SC	1/4	1/4-18	0.05	----
700406SC	1/4	3/8-18	0.08	----
700602C	3/8	1/8-27	0.05	----
700604SC	3/8	1/4-18	0.07	----
700606SC	3/8	3/8-18	0.09	----
700608SC	3/8	1/2-14	0.10	----
700804C	1/2	1/4-18	0.08	----
700806SC	1/2	3/8-18	0.10	----
700808SC	1/2	1/2-14	0.11	----

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COMPOSITE BODY D.O.T. PUSH-IN

BRASS FITTINGS

MALE RUN TEE

- Fixed

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	
715301C	5/32	1/16	0.05	----
715302C	5/32	1/8	0.03	----
715304C	5/32	1/4	0.04	----
710402SC	1/4	1/8-27	0.04	----
710404SC	1/4	1/4-18	0.05	----
710604SC	3/8	1/4-18	0.08	----
710606SC	3/8	3/8-18	0.10	----
710608SC	3/8	1/2-14	0.15	----
710804C	1/2	1/4-8	0.09	----
710806SC	1/2	3/8-18	0.11	----
710808C	1/2	1/2-14	0.17	----

MALE BRANCH TEE

- Fixed

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	
725301C	5/32	1/16	0.03	----
725302C	5/32	1/8	0.03	----
725304C	5/32	1/4	0.05	----
720402SC	1/4	1/8-27	0.04	----
720404SC	1/4	1/4-18	0.05	----
720406SC	1/4	3/8-18	0.08	----
720604SC	3/8	1/4-18	0.08	----
720606SC	3/8	3/8-18	0.10	----
720608C	3/8	1/2-14	0.15	----
720804C	1/2	1/4-18	0.09	----
720806SC	1/2	3/8-18	0.11	----
720808SC	1/2	1/2-14	0.17	----
721006C	5/8	3/8	0.18	----
721008C	5/8	1/2	0.21	----

FEMALE BRANCH TEE

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	
770402C	1/4	1/8-27	0.06	----
770404C	1/4	1/4-18	0.08	----
770604C	3/8	1/4-18	0.08	----
770806C	1/2	3/8	0.13	----
771004C	5/8	1/4	0.21	----

45° MALE ELBOW

- Fixed

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	
545302C	5/32	1/8-27	0.03	----
540402SC	1/4	1/8-27	0.03	----
540404SC	1/4	1/4-18	0.04	----
540602SC	3/8	1/8-27	0.06	----
540604SC	3/8	1/4-18	0.06	----
540606SC	3/8	3/8-18	0.08	----
540608SC	3/8	1/2-14	0.13	----
540802C	1/2	1/8-27	0.08	----
540804SC	1/2	1/4-18	0.08	----
540806SC	1/2	3/8-18	0.10	----
540808SC	1/2	1/2-14	0.15	----
541006SC	5/8	3/8-18	0.14	----
541008SC	5/8	1/2-14	0.17	----
541208SC	3/4	1/2-14	0.26	----

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COMPOSITE BODY D.O.T. PUSH-IN
BRASS FITTINGS

UNION "Y"

PART #	A&B TUBE OD (INCH)	C TUBE OD (INCH)	APPROX. WT. LBS.	
620553C	1/4	1/4	0.03	----
620409C	1/4	3/8	0.03	----
620555C	3/8	3/8	0.05	----
620559C	3/8	1/4	0.07	----
620557C	1/2	1/2	0.08	----

MALE BRANCH "Y"

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	
880402C	1/4	1/8	0.05	----
880404C	1/4	1/4	0.06	
880406C	1/4	3/8	0.09	----
620604C	3/8	1/4-18	0.09	----
620606C	3/8	3/8-18	0.12	----
620806C	1/2	3/8-18	0.13	----
620808C	1/2	1/2-14	0.15	----

BULKHEAD UNION

PART #	TUBE OD (INCH)	THREAD (UNF)	APPROX. WT. LBS.	
825320C	5/32	1/2-20	0.07	----
820400C	1/4	9/16-18	0.07	----
820600C	3/8	7/8-14	0.19	----
820800C	1/2	1-12	0.26	----
821000C	5/8	1 1/8-12	0.42	----

FEMALE BULKHEAD CONNECTOR

PART #	APP. TUBE OD (INCH)	THREAD NPT	T (UNF)	APPROX. WT. LBS.	
865304C	5/32	1/4-18	1/2-20	0.08	----
860402C	1/4	1/8-27	9/16-18	0.01	----
860404C	1/4	1/4-18	9/16-18	0.08	----
860604C	3/8	1/4-18	7/8-14	0.20	----
860606C	3/8	3/8-18	7/8-14	0.20	----
860806C	1/2	3/8-18	1-12	0.26	----
860808C	1/2	1/2-14	1-12	0.27	----

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D.O.T. AIR BRAKE – NYLON TUBING

Tube O.D	1/4	3/8	1/2	5/8	3/4
Thread Size-B	7/16-24	17/32-24	11/16-20	13/16-18	1-18

▪Typical Application
Air brake systems except where temperatures exceed +200^{0}F or where battery acid can drip on tubing.

▪Pressure
Maximum operating pressure of 150 PSI.

▪Vibration
Fair resistance.

▪Temperature Range
-40^{0}F to +200^{0}F (-40^{0}C to +93^{0}C).

▪Material
Brass

▪Used With
NT Nylon Tubing - SAE J844 Type A and B.

▪ Tolerance
+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical

▪Advantages
Easy to assemble (no tube preparation or flaring required.) Built in tube support. Fittings utilize a ribbed sleeve for compression and positive grip. May be used with copper tubing by replacing nut, sleeve and insert with long nut and spherical sleeve. Insert should be removed for copper tubing use.

▪Conformance
Meets specifications and standards of SAE and DOT FMVSS 571,106.

▪Assembly Instructions
1- Cut tubing to desired length.
2-Slide nut and then sleeve on tubing. Threaded end of nut "A" must face toward fitting body.
3-Insert tubing into the preassembled fitting. Be sure tubing is bottomed in fitting.
4- Tighten nut to required torque as indicated on chart.

Disassembling: Remove nut and pull tubing out of fitting body. Insert will remain in tubing.
Reassembly: Push tubing and insert into fitting body until it bottoms. Thread nut onto fitting body

Tube Size	Additional Number of Turns from Hand-Tight
1/4	3
3/8, 1/2	4
5/8, 3/4	3-1/2

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D.O.T. AIR BRAKE - NYLON TUBING

BRASS FITTINGS

SLEEVE

SAE# 100115

60NA
NT60

PART #	TUBE O.D.	APPROX. WT. LBS.	
38000	3/16"		----
38001	1/4"	0.01	----
38002	3/8"	0.01	----
38003	1/2"	0.01	----
38004	5/8"	0.01	----
38005	3/4"	0.01	----

60NAB **60NTA** 1460

NUT

SAE# 100110

62NA
NT61

PART #	TUBE O.D.	APPROX. WT. LBS.	
38009	3/16"		----
38010	1/4"	0.02	----
38011	3/8"	0.03	----
38012	1/2"	0.05	----
38013	5/8"	0.06	----
38014	3/4"	0.09	----

61NAB **61NTA** 1461

UNION

SAE# 100101BA

62NA
NT62

PART #	TUBE O.D.	APPROX. WT. LBS.	
38018	3/16"		----
38019	1/4"	0.07	----
38020	3/8"	0.11	----
38021	1/2"	0.20	----
38022	5/8"	0.25	----
38023	3/4"	0.40	----

62NAB **62NTA** 1462

BULKHEAD UNION

62NABH
NT62BH

PART #	TUBE O.D.	APPROX. WT. LBS.	
38028	1/4"	0.11	----
38029	3/8"	0.16	----
38030	1/2"	0.26	----

62NBH **1474** 475

STAINLESS STEEL INSERT

- 300 SERIES STAINLESS
- For SAE# J844 TUBING

AQ71DOTS
DQ71S

PART #	TUBE O.D.	APPROX. WT. LBS.	
38035	1/4"	0.01	----
38036	3/8"	0.01	----
38037	1/2"	0.01	----
38038	5/8"	0.01	----
38039	3/4"	0.01	----

59A **63NTA**

BRASS INSERT

AQ71DOTS
DQ71S

PART #	TUBE O.D.	APPROX. WT. LBS.	
38040	1/4"	0.01	----
38041	3/8"	0.01	----
38042	1/2"	0.01	----
38043	5/8"	0.01	----
38048	3/4"	0.02	----

1484 **463**

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D.O.T. AIR BRAKE - NYLON TUBING
BRASS FITTINGS

TEE

SAE# 100401BA

64NA
NT64

PART #	TUBE O.D.	APPROX. WT. LBS.	
38044	1/4″	0.12	----
38045	3/8″	0.19	----
38046	1/2″	0.36	----
38047	5/8″	0.48	----

64NAB **264NTA** 1464

REDUCING BRANCH TEE

PART #	TUBE O.D. (1&2) X 3	APPROX. WT. LBS.	
38049	3/8″ x 1/4″	0.24	----
38057	1/2″ x 3/8″	0.30	----

ELBOW

SAE# 100201BA

65NA
NT65

PART #	TUBE O.D.	APPROX. WT. LBS.	
38052	1/4″	0.09	----
38053	3/8″	0.13	----
38054	1/2″	0.15	----
38055	5/8″	0.36	----

65NAB **265NTA** 1465

FEMALE ADAPTER

SAE# 100103BA

66NA
NT66

PART #	TUBE O.D. X FEMALE NPT	APPROX. WT. LBS.	
38060	1/4″ x 1/8″	0.06	----
38061	1/4″ x 1/4″	0.08	----
38062	3/8″ x 1/8″	0.07	----
38063	3/8″ x 1/4″	0.10	----
38064	3/8″ x 3/8″	0.14	----
38065	1/2″ x 3/8″	0.16	----
38066	1/2″ x 1/2″	0.20	----
38067	5/8″ x 3/8″	0.28	----
38068	5/8″ x 1/2″	0.28	----
38059	3/4" x 1/2"	0.31	

66NAB **66NTA** 1466 **66NBH**

If you watch a game, it's fun. If you play it, it's recreation.
If you work at it, it's golf.

– Bob Hope

Dimension data can change without notice. Please check when dimensions are critical.

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D.O.T. AIR BRAKE - NYLON TUBING

BRASS FITTINGS

MALE ADAPTER

SAE# 100102BA

68NA
NT68VS

- More sizes available

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
38072	1/4" x 1/16"	0.05	----
38073	1/4" x 1/8"	0.05	----
38074	1/4" x 1/4"	0.06	----
38075	1/4" x 3/8"	0.08	----
38076	3/8" x 1/8"	0.07	----
38077	3/8" x 1/4"	0.08	----
38078	3/8" x 3/8"	0.10	----
38079	3/8" x 1/2"	0.14	----
38080	1/2" x 1/4"	0.13	----
38081	1/2" x 3/8"	0.14	----
38082	1/2" x 1/2"	0.18	----
38087	1/2" x 3/4"	0.23	----
38083	5/8" x 3/8"	0.17	----
38084	5/8" x 1/2"	0.21	----
38088	5/8" x 3/4"	0.25	----
38085	3/4" x 1/2"	0.28	----
38086	3/4" x 3/4"	0.30	----

68NAB **68NTA** 1468

SWIVEL MALE ADAPTER

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
38078S	3/8" x 3/8"	0.18	----
38081S	1/2" x 3/8"	0.22	----

MALE ELBOW

SAE# 100202BA

69NA
NT69VS

- More sizes available

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
38091	1/4" x 1/8"	0.06	----
38092	1/4" x 1/4"	0.08	----
38093	1/4" x 3/8"	0.13	----
38094	3/8" x 1/8"	0.09	----
38095	3/8" x 1/4"	0.11	----
38090	3/8" x 1/4" LONG	0.14	----
38101	3/8" x 3/8"	0.14	----
38102	3/8" x 1/2"	0.20	----
38103	1/2" x 1/4"	0.16	----
38104	1/2" x 3/8"	0.20	----
38109	1/2" x 3/8" LONG	0.26	----
38105	1/2" x 1/2"	0.29	----
38106	5/8" x 3/8"	0.26	----
38107	5/8" x 1/2"	0.32	----
38110	5/8" x 3/4"	0.40	----
38108	3/4" x 1/2"	0.43	----
38111	3/4" x 3/4"	0.51	

SWIVEL MALE ELBOW

269NTA **1469**

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
38101S	3/8" x 3/8"	0.28	----
38104S	1/2" x 3/8"	0.32	----

FEMALE ELBOW

SAE# 100203BA

70NA
NT70

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	
38113	1/4" x 1/8"	0.08	----
38114	1/4" x 1/4"	0.12	----
38115	3/8" x 1/8"	0.14	----
38116	3/8" x 1/4"	0.10	----
38117	3/8" x 3/8"	0.12	----
38118	1/2" x 3/8"	0.23	----
38119	1/2" x 1/2"	0.36	----

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D.O.T. AIR BRAKE - NYLON TUBING
BRASS FITTINGS

MALE RUN TEE

SAE# 100424BA

71NA
NT71VS

PART #	TUBE O.D. X MALE NPTF X TUBE O.D. 1X2X3	APPROX. WT. LBS.	
38125	1/4" x 1/8" x 1/4"	0.10	----
38126	1/4" x 1/4" x 1/4"	0.13	----
38124	3/8" x 1/4" x 1/4"	0.14	----
38127	3/8" x 1/4" x 3/8"	0.17	----
38128	3/8" x 3/8" x 3/8"	0.20	----
38129	1/2" x 3/8" x 1/2"	0.30	----

71NAB **271NTA** 1471

MALE BRANCH TEE

SAE# 100425BA

72NA
NT72VS

PART #	TUBE O.D. X TUBE O.D. X MALE NPTF 1X2X3	APPROX. WT. LBS.	
38136	1/4" x 1/4" x 1/8"	0.10	----
38137	1/4" x 1/4" x 1/4"	0.13	----
38138	3/8" x 3/8" x 1/8"	0.14	----
38132	3/8" x 1/4" x 1/4"	0.15	----
38139	3/8" x 3/8" x 1/4"	0.17	----
38133	1/2" x 1/2" x 1/4"	0.26	----
38140	3/8" x 3/8" x 3/8"	0.21	----
38134	1/2" x 3/8" x 3/8"	0.26	----
38141	1/2" x 1/2" x 3/8"	0.30	----
38142	1/2" x 1/2" x 1/2"	0.37	----
38143	5/8" x 5/8" x 1/2"	0.44	----

72NAB **272NTA** 1472

FEMALE BRANCH TEE

PART #	TUBE O.D. X TUBE O.D. X FEMALE NPTF 1X2X3	APPROX. WT. LBS.	
38144	3/8" x 3/8" x 1/4"	0.21	----
38146	5/8" x 5/8" x 1/4"	0.48	----

45° ELBOW

SAE# 100302BA

6945NA
NT6945VS

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
38148	1/4" x 1/8"	0.06	----
38149	1/4" x 1/4"	0.08	----
38150	3/8" x 1/8"	0.09	----
38151	3/8" x 1/4"	0.11	----
38152	3/8" x 3/8"	0.14	----
38153	3/8" x 1/2"	0.24	----
38157	1/2" x 1/4"	0.18	----
38154	1/2" x 3/8"	0.19	----
38155	1/2" x 1/2"	0.25	----
38156	5/8" x 1/2"	0.30	----
38158	3/4" x 1/2"	0.38	----

6945NAB **279NTA** 1480

SWIVEL 45° ELBOW

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
38152S	3/8" x 3/8"	0.20	----
38154S	1/2" x 3/8"	0.24	----

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D.O.T. AIR BRAKE - COPPER TUBING

BRASS FITTINGS

SLEEVE

SAE# 120115BA

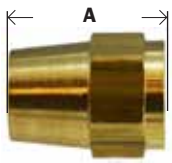
60AB
AB60

PART #	TUBE O.D.	A	APPROX. WT. LBS.	
38161	1/4"	0.25	0.01	----
38162	3/8"	0.31	0.02	----
38163	1/2"	0.38	0.02	----
38164	5/8"	0.44	0.02	----
38165	3/4"	0.50	0.04	----

60AB **1360**

NUT

SAE# 120111BA



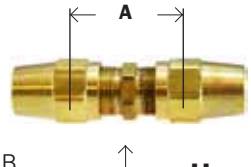
61AB
AB61

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	
38170	1/4"	0.75	0.56	0.02	----
38171	3/8"	1.13	0.62	0.04	----
38172	1/2"	1.25	0.81	0.08	----
38173	5/8"	1.38	0.94	0.12	----
38174	3/4"	1.56	1.12	0.18	----

20961 **61AB** 1361

UNION

SAE# 120101BA



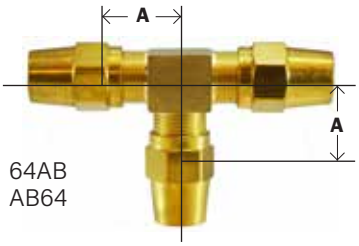
62AB
AB62

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	
38179	1/4"	0.81	0.44	0.08	----
38180	3/8"	1.10	0.56	0.14	----
38181	1/2"	1.07	0.69	0.24	----
38182	5/8"	1.41	0.81	0.34	----
38183	3/4"				----

62AB **1362**

TEE

SAE# 120401BA



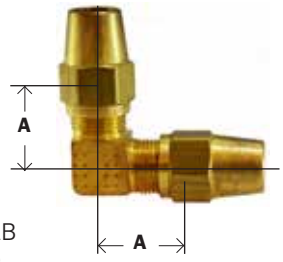
64AB
AB64

PART #	TUBE O.D.	A	APPROX. WT. LBS.	
38188	1/4"	0.62	0.16	----
38189	3/8"	0.82	0.24	----
38190	1/2"	0.94	0.48	----
38191	5/8"			

264AB **1364**

ELBOW

SAE# 120201BA



65AB
A65

PART #	TUBE O.D.	A	APPROX. WT. LBS.	
38196	1/4"	0.62	0.10	----

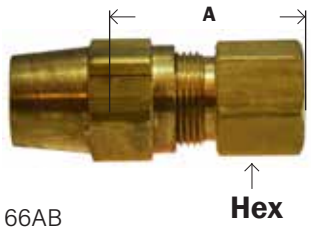
265AB **1365**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. AIR BRAKE - COPPER TUBING
BRASS FITTINGS

FEMALE ADAPTER

SAE# 120103BA



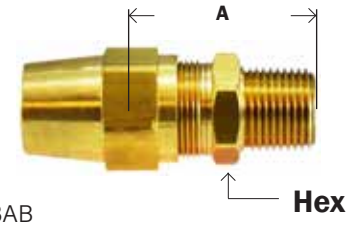
66AB
AB66

PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
38204	1/4" x 1/8"	0.84	0.56	0.08	----
38205	1/4" x 1/4"	1.07	0.68	0.10	----
38206	3/8" x 1/8"	1.00	0.56	0.10	----
38207	3/8" x 1/4"	1.19	0.68	0.12	----
38208	3/8" x 3/8"	1.18	0.87	0.16	----
38209	1/2" x 3/8"	1.27	0.87	0.18	----
38210	1/2' x 1/2"	1.44	1.06	0.20	----
38211	5/8" x 3/8"	1.31	0.87	0.24	----
38212	5/8" x 1/2"	0.50	1.06	0.26	----
38213	3/4" x 1/2"				----

66AB **1366**

MALE ADAPTER

SAE# 120102BA



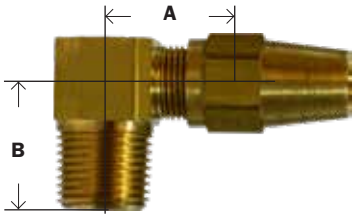
68AB
AB68

PART #	TUBE O.D. X MALE NPTF	A	HEX	APPROX. WT. LBS.	
38217	1/4" x 1/8"	0.88	0.43	0.06	----
38218	1/4" x 1/4"	0.97	0.56	0.08	----
38221	3/8" x 1/4"	1.09	0.56	0.10	----
38222	3/8" x 3/8"	1.19	0.69	0.12	----
38223	3/8" x 1/2"	1.45	0.87	0.18	----
38224	1/2" x 1/4"	1.32	0.69	0.16	----
38225	1/2" x 3/8"	1.35	0.69	0.18	----
38226	1/2" x 1/2"	1.51	0.87	0.24	----
38227	5/8" x 3/8"	1.39	0.81	0.22	----
38228	5/8" x 1/2"	1.57	0.87	0.24	----
38229	3/4" x 1/2"	1.67	1.00	0.34	----

68AB **368**

90° MALE ELBOW

SAE# 120202BA



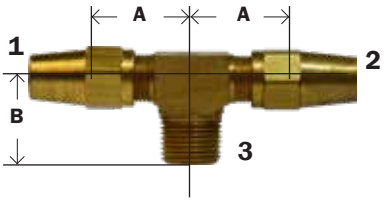
69AB
AB69

PART #	TUBE O.D. X MALE NPTF	A	B	APPROX. WT. LBS.	
38235	1/4" x 1/8"	0.64	0.76	0.08	----
38236	1/4" x 1/4"	0.69	0.88	0.10	----
38237	1/4" x 3/8"	0.73	0.86	0.14	----
38239	3/8" x 1/4"	0.80	0.93	0.12	----
38240	3/8" x 3/8"	0.83	0.90	0.16	----
38241	3/8" x 1/2"				----
38243	1/2" x 3/8"	0.92	0.98	0.22	----
38244	1/2" x 1/2"	1.04	1.19	0.30	----
38246	5/8" x 1/2"	1.10	1.25	0.36	----

269AB **1369**

MALE BRANCH TEE

SAE# 120425BA



72AB
AB72

PART #	TUBE O.D. X MALE NPTF (1&2)X3	A	B	APPROX. WT. LBS.	
38278	3/8" x 1/4"	0.78	0.91	0.18	----
38279	3/8" x 3/8"	0.85	0.92	0.24	----

272AB **1372**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. AIR BRAKE REUSABLE HOSE/ FITTINGS

▪Typical Application
Air Brake hose connections.
Meets SAE & DOT specifications
(FMVCS 10 GAL)

▪Pressure
Determined by maximum working pressure for hose size. Up to 125 psi

Temperature: -40^{0}F to + 120^0 F (-40°C to +48°C)

▪Advantages
Can be used for nearly any brake line. Easy to assemble with a good selection of hose end configurations. Brass material offers excellent resistance against corrosion.

▪ Tolerance
+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

▪Assembly Instructions
1- Slide nut and sleeve onto hose. Make sure bevel edge of sleeve faces out toward fitting.
2- Push hose into fitting until it bottoms.
3- Screw nut until contact is made with body hex.

NOTE: When reassembling fitting, body and nut should be inspected. Only reuse if in proper condition. Sleeves should never be reused.

SLEEVE

FERRULE

60HE
HE60

PART #	HOSE I.D. SIZE	APPROX. WT. LBS.	
38300	3/8″	0.02	----
38301	1/2″	0.02	----

#60HC 3380-A 0903610 367 60RB

NUT

61HE
HE61

PART #	HOSE I.D. SIZE	APPROX. WT. LBS.	
38306	3/8″	0.04	----
38307	1/2″	0.06	----

61RB **#61HC** 369 **3380-B** 0903624

NUT FOR USE WITH SPRING

61HES
HE61N

PART #	HOSE I.D. SIZE	THREAD	APPROX. WT. LBS.	
38312	3/8″	31/32-20	0.04	----
38313	1/2″	1-3/32-20	0.06	----

#61HCS **0903613** 3380-D **61RBSG**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. AIR BRAKE - HOSE/ ENDS
BRASS FITTINGS

SPRING

61HSG
HE61G

PART #	HOSE I.D.	APPROX. WT. LBS.	
38351	3/8″	0.20	----
38352	1/2″	0.22	----

#60SG **0901045** 3380-C **377**

NUT AND SPRING ASSEMBLY

HE61NG

PART #	HOSE I.D. SIZE	APPROX. WT. LBS.	
38015	3/8″	0.18	----
38016	1/2″	0.24	----

379 **67RBSG** 0999999

UNION

62HE
HE62

PART #	HOSE I.D.	THREAD	APPROX. WT. LBS.	
38318	3/8″	31/32-20	0.32	----
38319	1/2″	1-1/8-20	0.48	----

#62HC **3380B-Y0** 362

BODY ONLY

PART #	HOSE I.D.	THREAD	APPROX. WT. LBS.	
39318	3/8″	31/32-20	0.32	----
39319	1/2″	1-1/8-20	0.48	----

FEMALE CONNECTOR HOSE

66HEA

PART #	HOSE I.D. X FEMALE ABS	APPROX. WT. LBS.	
38357	3/8″ x 3/4-20	0.24	----
38358	1/2″ x 7/8-20	0.39	----

#66ABS **66RBSV** 3380B-Y7 **386**

BODY ONLY

PART #	HOSE I.D. X FEMALE ABS	APPROX. WT. LBS.	
39357	3/8″ x 3/4-20	0.24	----
39358	1/2″ x 7/8-20	0.38	----

MALE CONNECTOR

68HEA
HE68S

PART #	HOSE I.D. X MALE PIPE	APPROX. WT. LBS.	
38363	3/8″ x 1/4″	0.38	----
38364	1/2″ x 3/8″	0.46	----

#68ABS **09155** 3380B-Y8 **387**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. AIR BRAKE - HOSE/ENDS

BRASS FITTINGS

ADAPTER FOR SWIVEL TYPE REUSABLE AND CRIMPED

68HEAB
1390

PART #	MALE ABS X MALE PIPE	ABS THREAD	APPROX. WT. LBS.	
38369	3/8" x 1/4"	3/4-20	0.05	----
38368	3/8" x 3/8"	3/4-20	0.08	----
38372	3/8" x 1/2"	3/4-20	0.12	----
38370	1/2" x 3/8"	7/8-20	0.10	----
38371	1/2" x 1/2"	7/8-20	0.12	----

#68ABS **1390** 76RB **388**

MALE ADAPTER

68HE
HE68

PART #	HOSE I.D. X MALE PIPE	APPROX. WT. LBS.	
38333	3/8" x 1/4"	0.22	----
38334	3/8" x 3/8"	0.24	----
38335	3/8" x 1/2"	0.26	----
38336	1/2" x 3/8"	0.33	----
38337	1/2" x 1/2"	0.36	----

#68HC **368** 3380B-Y2 **68RB**

ADAPTER BODY

68HEB
HE68B

PART #	HOSE I.D. X MALE PIPE	APPROX. WT. LBS.	
38324	3/8" x 1/4"	0.12	----
38325	3/8" x 3/8"	0.14	----
38326	3/8" x 1/2"	0.20	----
38327	1/2" x 3/8"	0.18	----
38328	1/2" x 1/2"	0.20	----

#68B **W1391Z**

MALE ADAPTER

68HES
HE68G

PART #	HOSE I.D. X MALE PIPE	APPROX. WT. LBS.	
38342	3/8" x 1/4"	0.32	----
38343	3/8" x 3/8"	0.34	----
38344	3/8" x 1/2"	0.38	----
38345	1/2" x 3/8"	0.48	----
38346	1/2" x 1/2"	0.52	----

#68HCS **3380B-Y3** 68RBSG **378**

"The man who removes a mountain begins
by carrying away small stones."

- Chinese Proverb

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STEEL GREASE FITTINGS

BRASS FITTINGS

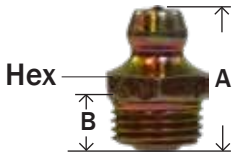
• 8000 PSI MAX. PRES-
• EXCEEDS 12HR SALT

Meets SAE #J-534C

Many types available on special order.

• ASSORTMENTS ALSO

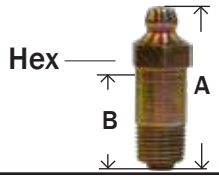
PIPE THREAD — BALL CHECK - 1/8-27 NPTF



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36110	1/8" -27 NPTF	0.66	0.28	0.437	0.01	----
36110SS	303 SS	0.68	0.29	0.437	0.01	----
36111	Thread Forming	0.62	0.23	0.437	0.01	----

#610 **1610** 2800 **1720** 5000

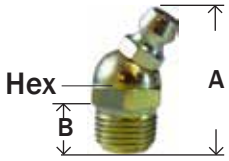
PIPE THREAD — BALL CHECK



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36112	1/8" -27 NPTF	1.25	0.22	0.437	0.02	----
36113	1/8" -27 NPTF	1.75	1.26	0.437	0.02	----

#607 **1607** 2800 **1669** 5003

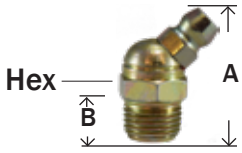
PIPE THREAD — 30° ANGLE BALL CHECK



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36114	1/8" -27 NPTF	0.90	0.30	0.437	0.01	----

#611 **1611** 2830 **5100**

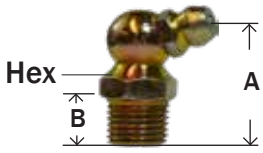
PIPE THREAD — 45° ANGLE BALL CHECK



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36116	1/8" -27 NPTF	0.88	0.22	0.437	0.01	----
36116SS	303 SS	0.95	0.29	0.437	0.01	----

#688 **1688** 2845 **5200**

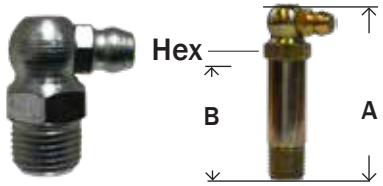
PIPE THREAD — 65° ANGLE BALL CHECK



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36118	1/8" -27 NPTF	0.86	0.30	0.437	0.01	----

#612 **1612** 2865 **5300**

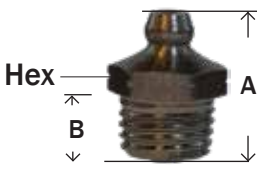
PIPE THREAD — 90° ANGLE BALL CHECK



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36120	1/8" -27 NPTF	0.84	0.30	0.437	0.01	----
36120SS	303 SS	0.84	0.29	0.437	0.01	----
36121	1/8" -27 NPTF	1.81	1.25	0.437	0.01	----

#613 **1613** 2890 **5400** 5407

PIPE THREAD — BALL CHECK - 1/4-18 NPTF



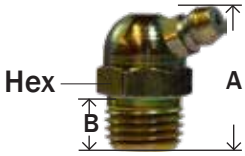
PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36130	1/4" -18 NPTF	0.84	0.30	0.437	0.02	----
36130SS	303 SS	0.87	0.42	0.437	0.02	----

#627 **1627** 2900K **5050**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STEEL GREASE FITTINGS
BRASS FITTINGS

PIPE THREAD

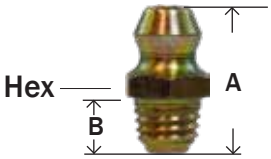


65° ANGLE BALL CHECK

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36132	1/4"-18 NPTF	0.97	0.34	0.56	0.02	----

#629 **1629** 2965 **5350**

1/4-28 TAPER THREAD

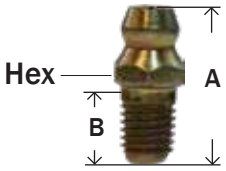


SHORT BALL CHECK - 1/4-28 NPTF

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36140	1/4"-28 NPTF	0.54	0.18	0.31	0.01	----
36140SS	303 SS	0.54	0.18	0.31	0.01	----
36141	Thread Forming	0.55	0.10	0.31	0.01	----

#641 **1641** 2400 **3038** 5010

1/4-28 TAPER THREAD

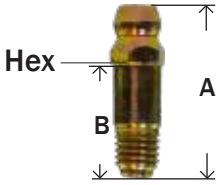


LONG BALL CHECK

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36142	1/4"-28 Taper Thread	0.69	0.34	0.312	0.01	----

#652 **1652** 2400 **5013**

1/4-28 TAPER THREAD

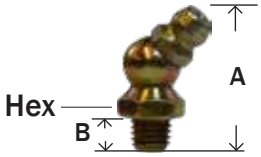


EXTRA LONG BALL CHECK

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36144	1/4"-28 Taper Thread	0.92	0.60	0.312	0.02	----

#680 **1680** 2400 **5014**

1/4-28 TAPER THREAD

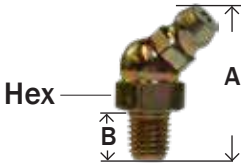


SHORT 45° BALL CHECK

PART #	SIZE	AN-GLE	A	B	HEX	APPROX. WT. LBS.	
36146	1/4"-28 Taper Thread	45°	0.82	0.20	0.375	0.02	----
36146SS	303 SS	45°	0.81	0.20	0.375	0.02	----

#637 **1637** 2445 **1665** 2465 **3010** 5210

1/4-28 TAPER THREAD

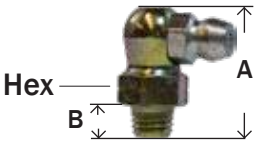


LONG 45° BALL CHECK

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36148	1/4"-28 Taper Thread	0.94	0.30	0.375	0.02	----

#636 **1630** 2445

1/4-28 TAPER THREAD



90° ANGLE BALL CHECK **SAE# A515002**

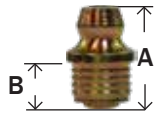
PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36150	1/4"-28 Taper Thread	0.75	0.10	0.375	0.02	----
36150SS	303 SS	0.75	0.20	0.375	0.02	----
36152	Thread Forming	0.75	0.16	0.375	0.02	----

#911 **1911** 2490 **3054** 5410

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STEEL GREASE FITTINGS
BRASS FITTINGS

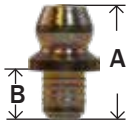
DRIVE TYPE — BALL CHECK Drive Type



PART #	SIZE	A	B	APPROX. WT. LBS.	
36160	5/16"	0.55	0.25	0.01	----

#608 **1608** 5021

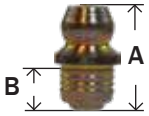
DRIVE TYPE — BALL CHECK



PART #	SIZE	A	B	APPROX. WT. LBS.	
36164	3/16"	0.52	0.25	0.01	----
36164SS	303 SS	0.51	0.25	0.01	----

#728 **1728** 2316 **5033**

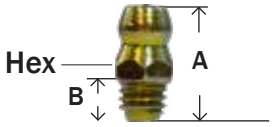
DRIVE TYPE — BALL CHECK



PART #	SIZE	A	B	APPROX. WT. LBS.	
36166	1/4"	0.55	0.23	0.01	----
36166SS	303 SS	0.55	0.23	0.01	----

#743 **1743** 214 **5029**

METRIC

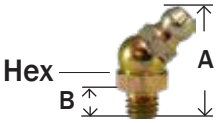


PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	
36168	6MM x 1	16	3.7	7	0.01	----

(Diameter x Pitch)

#711 **6000** 2106 **2M6** 5175

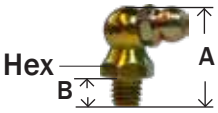
METRIC — 45° ANGLE



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	
36170	6MM x 1	21	3.7	9	0.02	----

#712 **6045** 2107 **5176**

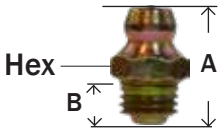
METRIC — 90° ANGLE



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	
36172	6MM x 1	18	3.7	9	0.02	----

#713 **6090** 2108 **ZM906** 5177

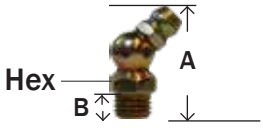
METRIC



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	
36174	8MM x 1	16	3.7	9	0.02	----

#811 **8000** 2103 **ZM58** 5178

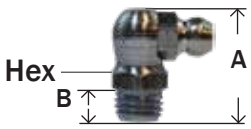
METRIC — 45° ANGLE



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	
36176	8MM x 1	21	3.7	9	0.02	----

#812 **8045** 2104 **ZM458** 5179

METRIC — 90° ANGLE



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	
36178	8MM x 1	18	3.7	9	0.02	----

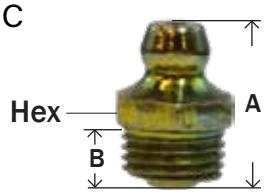
#813 **8090** 2105 **ZM908** 5180

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STEEL GREASE FITTINGS

BRASS FITTINGS

METRIC

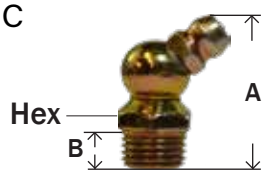


PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	
36180	10MM x 1	16	3.7	11	0.02	----

• DIAMETER X PITCH (EXTRA FINE)

#911 **9000** 2109 **ZM510** 5181

METRIC

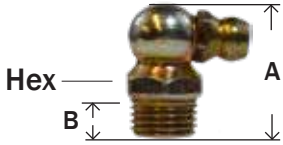


45° ANGLE

PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	
36182	10MM x 1	21	3.7	11	0.02	----

#912 **9045** 2110 **ZM4510**

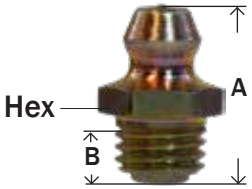
METRIC



90° ANGLE

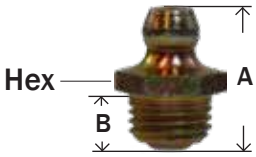
PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	
36184	10MM x 1	18	3.7	11	0.02	----

#913 **9090** 2111 **ZM9010** 5183



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36186	5/16"-24	0.65	0.12	0.375	0.02	----

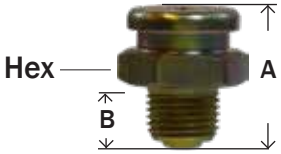
#711-B **1711** 2500



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36188	3/8"-24	0.65	0.14	0.437	0.01	----

#710-B **1710** 2600

BUTTON HEAD



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36200	1/8"-27 PTF	0.75	0.34	0.625	0.03	----
36205	1/4"-18 NPT	0.83	0.44	0.625	0.03	----

1184 **1186**

WHIP HOSE - EXCEEDS SAE 100R1-AT - USE WITH HAND GREASE GUNS ONLY

10,000 PSI BURST PRESSURE RUB-

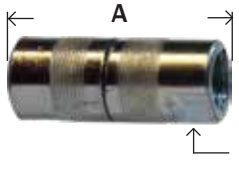
1/8" NPT SOLID
3/16" ID

3,000 PSI WORKING PRESSURE

PART #	LENGTH	
36210	12" RUBBER	----
36212	18" RUBBER	----
36214	24" RUBBER	----
36216	36" RUBBER	----

4 JAW GREASE GUN COUPLER

PROVIDES QUICK, POSITIVE, LEAKPROOF CONNECTION W/ GREASE



1/8" NPTF

PART #	A	HEX	APPROX. WT. LBS.	
36220	1.50	0.56	0.05	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ADAPTERS FOR GREASE FITTINGS

ADAPTERS

• CARBON STEEL, ZINC COATED

PART #	FEMALE	MALE	L	H	WEIGHT	
36300	1/8"-27 NPTF	1/4-28" SAE-LT	.75	1/2	0.02	----
36301	1/8"-27 NPTF	1/4-28" SAE-LT	.87	1/2	0.02	----

PART #	FEMALE ENGLISH TO MALE ENGLISH		L	H	WEIGHT	
36304	1/4"-28 UNF	M6 x 1.0	.43	9mm	0.01	----
36305	1/4"-28 UNF	M8 x 1.0	.45	3/8	0.01	----
36306	1/4"-28 UNF	M10 x 1.0	.32	7/16	0.01	----

EXTENSIONS

PART #	FEMALE ENGLISH TO MALE ENGLISH		L	H	WEIGHT	
36307	1/4"-28 UNF	1/4"-28 SAE-LT	1.34	-	0.01	----
36308	1/8"-27 NPTF	1/8"-27 NPTF	.75	1/2	0.02	----
36309*	1/8"-27 NPTF	1/8"-27 NPTF	.82	1/2	0.02	----
36310	1/8"-27 NPTF	1/8"-27 NPTF	.94	9/16	0.04	----
36311	1/8"-27 NPTF	1/8"-27 NPTF	1.25	1/2	0.04	----

*BRASS PLATED

45° ANGLE ELBOWS

PART #	FEMALE	MALE	L	H	WEIGHT	
36360	1/8"-27 NPTF	1/4"-28 SAE-LT	.81	1/2	0.02	----
36362	1/8"-27 NPTF	1/8"-27 PTF SAE Short	1.00	1/2	0.03	----

90° ANGLE ELBOWS

PART #	FEMALE	MALE	L	H		
36370	1/8"-27 NPTF	1/4"-28 SAE-LT	.81	1/2	0.03	----
36371	1/8"-27 NPTF	1/4"-28 SAE-LT	1.04	1/2	0.03	----
36372	1/8"-27 NPTF	1/4"-18 PTF SAE Short	1.19	9/16	0.06	----
36374	1/8"-27 NPTF	1/8"-27 PTF SAE Short	1.00	1/2	0.03	----
36375	1/8"-27 NPTF	1/8"-27 NPTF	1.13	1/2	0.03	----
36377	1/4"-18 NPTF	1/4"-18 NPTF	1.34	11/16	0.08	----
36376	1/8"-27 NPTF	1/8"-27 NPTF	1.50	5/8	0.07	----
36373	1/8"-27 PTF SPL Extra Short	1/8"-27 PTF SPL Extra Short	.82	1/2	0.03	----

COUPLING

PART #	FEMALE	FEMALE	L	H	WEIGHT	
36340	1/4"-28 UNF	1/8"-27 NPTF	.65	1/2	0.02	----

BULKHEAD CONNECTOR

PART #	FEMALE	MALE (FEMALE)	L	H	WEIGHT	
36350	1/8"-27 NPTF	1/8"-27 NPSM (1/4"-28 UNF)	.88	1/2	0.03	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SPECIALTY VALVES AND COCKS

DRAIN COCKS

AIR VALVES

3, 4 AND 6 WAY

NEEDLE

MARINE & ANTI-SIPHON

PANEL MOUNT BALL VALVES

TRUCK

MINI BALL

SOLID BOTTOM SHUT-OFF

CHECK

SPRING BOTTOM SHUT-OFF

See our valve section for much, much more!

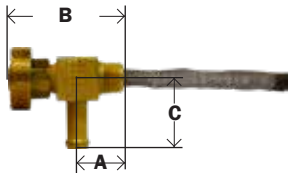
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

DRAIN COCKS

- For use with low pressure air, water and fluids.
- Designed for a working pressure of 150 psi @ 250°.
- Hand-tightening provides a metal-to-metal seal.
- Not intended for natural gas, LPG, nuclear or aircraft applications.

Install on your tank for easy draining

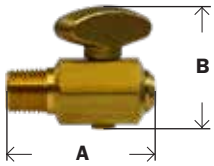
GASOLINE SHUT OFF W/ SCREEN FILTER



PART #	BARB X MALE PIPE	A	B	C	APPROX. WT. LBS.	
46064	1/4" x 1/8"	0.55	1.34	0.66	0.06	----

827

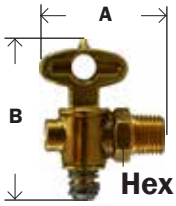
DRAIN COCK 150 PSI - TRUNK AIR TANK



PART #	MALE PIPE	A	B	APPROX. WT. LBS.	
46066	1/4"	1.73	1.41	0.22	----

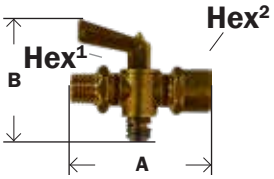
DCR601-4

TRUCK DRAIN - 125 P.S.I.G



PART #	MALE PIPE	INDUS-TRY NUMBER	A	B	HEX	APPROX. WT. LBS.	
46067	1/8"		1.53	1.95	0.62	0.14	----

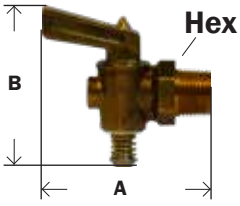
SHUT OFF - 150 P.S.I MAX.



PART #	MALE PIPE X FEMALE PIPE	INDUSTRY NUMBER	A	B	HEX 1	HEX 2	APPROX. WT. LBS.	
46069	1/4"	W20332	1.96	1.96	0.75	0.62	0.20	----

#60HC **3380-A** 0903610 **367**

LEVER HANDLE



PART #	MALE PIPE	INDUS-TRY NUMBER	A	B	HEX	APPROX. WT. LBS.	
46070	1/8"	M-41-P	1.99	1.80	0.62	0.04	----
46071	1/4"	M-42-P	2.06	1.81	0.62	0.06	----
46072	3/8"	M-43-P	2.30	2.29	0.81	0.08	----
46073	1/2"	M-44-P	3.00	2.50	0.87	0.16	----

- 30 psi

*Valve is closed when handle is in the position of the picture

840 **41D** DC601

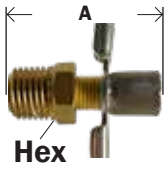
AIR TANK DRAIN PULL VALVE

PART #	SIZE	DESCRIPTION	
39595	1/4" male	5ft nylon coated pull cable	----
39596	1/4" male	4ft nylon coated pull cable	----
39597	1/4" male	3ft nylon coated pull cable	----
39600	1/4" male	Air valve only	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

DRAIN COCKS
BRASS FITTINGS

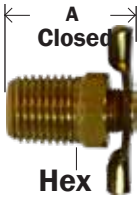
INTERNAL SEAT



PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.	
46079	1/8"	6783	1.45	0.55	0.02	----

DC602 **808** 400A **1800A**

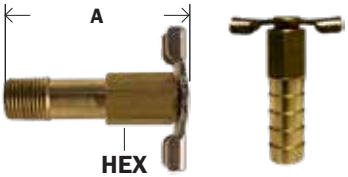
INTERNAL SEAT - WING NUT HANDLE



PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.	
46074	1/8"	130	0.92	0.40	0.04	----
46075	1/4"	140	0.94	0.56	0.06	----
46077	3/8"	230	1.27	0.68	0.08	----

HB - 5/16 **803** 305A

LONG INTERNAL SEAT



PART #	SIZE	IND #	A	HEX	APPROX. WT. LBS.	
46078	1/8 MIP	1.85				----
46076	3/8" Hose I.D.		1.65	0.43	0.02	----

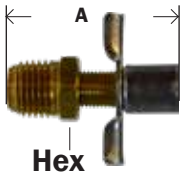
809

PIN HANDLE - INTERNAL SEAT

PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.	
46080	1/8"	M-200-P	1.22	0.50	0.04	----
46081	1/4"	M-201-P	1.31	0.56	0.06	----
46082	3/8"	M-202-P	1.53	0.68	0.12	----

DC603 **802**

EXTERNAL SEAT W/ SPOUT



PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.	
46084*	1/4"	6788	1.56	0.56	0.02	----

* Replaces GM # 511771 & Chrysler #836015

200A **239** DC606 **807**

BIBB VALVE

PART #	MALE PIPE	INDUSTRY NUMBER	A	B*	C	APPROX. WT. LBS.	
46088	1/8"	150	0.82	1.60	0.55	0.04	----
46089	1/4"	120	0.89	1.59	0.54	0.06	----
46089A	1/4"	6660	0.55	1.34	0.66	0.06	----

* With valve closed

804 **DC607** 2019 **201DH**

RADIATOR TYPE - EXTERNAL SEAT

PART #	MALE PIPE	INDUSTRY NUMBER	IND #	A	HEX	APPROX. WT. LBS.	
46085	1/8"	M-320-P	135	0.90	0.43	0.02	----
46086	1/4"	M-321-P	145	1.00	0.56	0.04	----
46087	3/8"	M-322-P	270	1.25	0.68	0.08	----
46083	1/2"	108	108	1.48	0.87	0.12	----

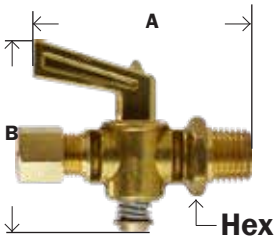
320D **240** DC604 **801**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SHUT-OFF COCKS
BRASS FITTINGS

- Designed for working pressure of 30 PSI.
- Forged brass bodies and brass handles.
- Instantaneous off-on operation with 360° rotation.
- Not good for gasoline.

COMPRESSION X MALE PIPE

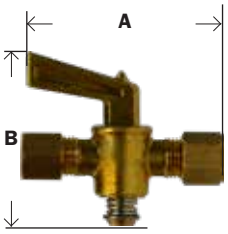


PART #	COMP X MALE PIPE	IND. #	A	B	HEX	APPROX. WT. LBS.	
46130	1/4″ x 1/8″	27-C	1.87	1.81	0.51	0.14	----
46131	1/4″ x 1/4″	227-C	2.05	1.86	0.62	0.15	----
46132	5/16″ x 1/8″	29-C	2.05	1.90	0.50	0.16	----
46134	3/8″ x 1/4″	57-C	2.05	1.83	0.62	0.15	----

868 **V304C** 2068 **133C** VC206

COMPRESSION X COMPRESSION

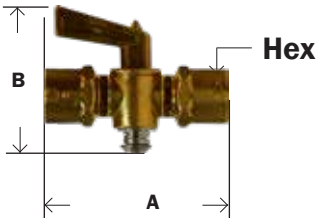
* See pg. 73-74 to order nut and sleeve separately.



PART #	COMP X COMP	IND. #	A	B	APPROX. WT. LBS.	
46140	1/4″	28-C	1.82	1.84	0.12	----
46141	5/16″	30-C	1.84	1.88	0.14	----
46142	3/8″	58-C	1.87	1.80	0.14	----
46143	1/2″	68-C	2.21	2.32	0.22	----

V3030F **2062** 134C

FEMALE X FEMALE PIPE

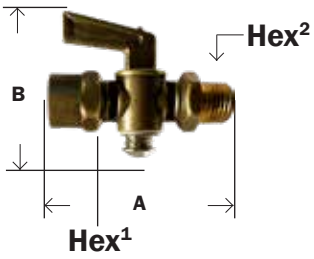


PART #	FEMALE PIPE X FEMALE PIPE	A	B	HEX	APPROX. WT. LBS.	
46151	1/8″	1.77	1.79	0.56	0.12	----
46152	1/4″	2.28	1.82	0.69	0.20	----
46152T*	1/4″	2.28	2.00	0.68	0.20	----
46153	3/8″	2.44	2.28	0.81	0.30	----

* 150 PSI

V403P **132C** 875

MALE PIPE X FEMALE

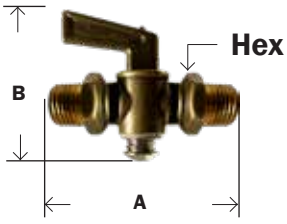


PART #	MALE PIPE X FEMALE PIPE	IND. #	A	B	HEX 1	HEX 2	APPROX. WT. LBS.	
46160	1/8″	48-P	2.03	1.84	0.50	0.56	0.14	----
46161	1/4″	49-P	2.26	1.79	0.69	0.69	0.18	----
46161T*	1/4″		2.26	1.98	0.69	0.69	0.20	----
46162	3/8″	50-P	2.33	2.28	0.82	0.82	0.28	----

* 150 PSI

880 **V402P** 130C

MALE PIPE X MALE PIPE



PART #	MALE PIPE X MALE PIPE	IND. #	A	B	HEX	APPROX. WT. LBS.	
46165	1/8″	76-P	2.15	1.80	0.69	0.12	----
46166	1/4″	77-P	2.22	1.84	0.70	0.17	----
46166T*	1/4″		2.23	2.00	0.68	0.18	----
46167	3/8″	78-P	2.43	2.24	0.82	0.22	----

* 150 PSI

1V401P **890**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NEEDLE VALVES
BRASS FITTINGS

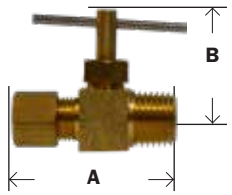
NEEDLE VALVES

THESE ARE NOT LEAD FREE SEE PAGES 169 FOR LEAD FREE PRODUCTS

Made with either pin handle or pressed on handle. Please specify if you have a preference.

- Used on instrumentation, hydraulic, and pneumatic systems.
- Designed for a maximum working pressure of 150 PSI. or
- Provided with steel handles and metal-to-metal seats with fine-thread screwdown.
- Not designed for natural gas, LPG, nuclear or aircraft applications.
- Always install with pressure against the seat.

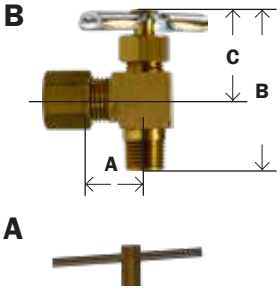
COMP X MALE PIPE



PART #	COMP X MALE PIPE	IND. #	A	B	APPROX. WT. LBS.	
46002	1/4" x 1/8"	M-101-C	1.29	1.12	0.07	----
46003	1/4" x 1/4"	M-101-C	1.27	1.14	0.10	----

NV106C **2205** 820 **3068**

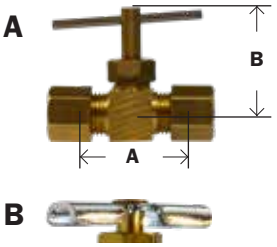
COMP X MALE PIPE-ANGLE



PART #	COMP X MALE PIPE	HAN-DLE	IND. #	A	B	C	APPROX. WT. LBS.	
46011	1/4" x 1/8"	A	M-103-C	0.56	1.48	0.93	0.08	----
46011X	Heavy Pattern	B	M-103-C	0.53	1.53	0.83	0.08	----
46012	1/4" x 1/4"	B	M-104-C	0.62	1.67	0.90	0.13	----
46013	5/16" x 1/8"	B	M-104-C	0.63	1.63	0.95	0.10	----

NV104C **2203** 821 **3069**

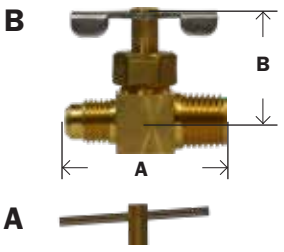
COMP X COMP



PART #	COMP X COMP	HAN-DLE	IND. #	A	B	APPROX. WT. LBS.	
46020	3/16"	B	M-105-C	1.06	0.88	0.08	----
46021	1/4"	A	M-106-C	1.17	1.12	0.10	----
46022	5/16"	A	M-107-C	1.22	1.08	0.12	----
46023	3/8"	B	M-113-C	1.31	1.15	0.13	----

NV105C **3062** 2201 **822**

FLARE X MALE PIPE



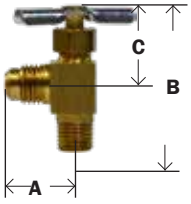
PART #	MALE FLARE X MALE PIPE	HAN-DLE	IND. #	A	B	APPROX. WT. LBS.	
46028	1/4" x 1/8"	A	M-104-SAE	1.35	1.12	0.07	----
46029	1/4" x 1/4"	B	M-1040-SAE	1.38	0.88	0.09	----
46031	3/8" x 1/4"	B	M-108-SAE	1.73	1.22	0.18	----

NV103F **2405** 823 **3048**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NEEDLE VALVES
BRASS FITTINGS

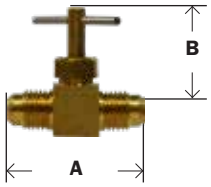
FLARE X MALE PIPE



PART #	MALE FLARE X MALE PIPE	IND. #	A	B	C	APPROX. WT. LBS.	
46036	1/4″ x 1/8″	M-103-SAE	0.68	1.54	0.86	0.08	----
46038	5/16″ x 1/8″	M-203-SAE	0.88	1.59	0.94	0.11	----
46039	5/16″ x 1/4″	M-204-SAE	0.90	1.94	1.00	0.14	----
46040	3/8″ x 1/4″	M-303-SAE	0.95	1.86	0.90	0.17	----

NV101F **2403** 824 **3049**

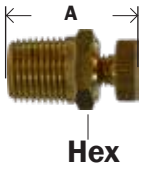
FLARE X FLARE



PART #	MALE FLARE X MALE FLARE	IND. #	A	B	APPROX. WT. LBS.	
46045	1/4″	M-110-SAE	1.48	1.20	0.18	----
46046	3/8″	M-115-SAE	1.79	1.19	0.20	----

NV102F **3042** 825 **2401**

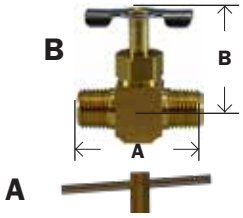
MULTI-PURPOSE AIR VENT



PART #	MALE PIPE	A	HEX	APPROX. WT. LBS.	
46048	1/8″	0.78	0.43	0.02	----

705

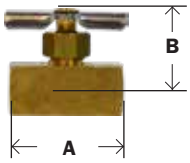
MALE PIPE TO MALE PIPE



PART #	MALE PIPE X MALE PIPE	HANDLE	IND. #	A	B	APPROX. WT. LBS.	
46050	1/8″	A	M-108-P	1.25	1.09	0.08	----
46051	1/4″	B	M-110-P	1.69	1.00	0.16	----

NV107P **2301** 826 **3122**

FEMALE PIPE X FEMALE PIPE

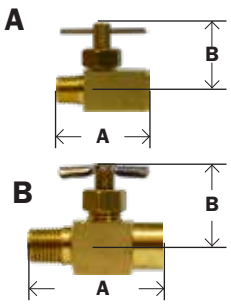


PART #	FEMALE PIPE X FEMALE PIPE	IND. #	A	B	APPROX. WT. LBS.	
46055*	1/8″	M-304-P	1.18	0.84	0.18	----
46056	1/4″	M-3044-P	1.60	1.24	0.21	----
46056P*	1/4″ Heavy	M-3044-P	1.62	2.53	0.20	----

* Pressed on handle

6800 **NV109P** 2304 **817** 3103

MALE X FEMALE PIPE



NBR seals -30°C to 120°C

PART #	MALE PIPE X FEMALE PIPE	HAN-DLE	IND. #	A	B	APPROX. WT. LBS.	
46060	1/8″	A	M-305-P	1.18	1.09	0.10	----
46061	1/4′	A	M-3055-P	1.60	1.14	0.18	----
46061L	1/4″ Light Pattern	B	M-3055-P	1.88	1.09	0.21	----

NV108P **2305** 818 **3120**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SPECIALTY VALVES
BRASS FITTINGS

BRASS TRUCK VALVES

- Used in heavy duty truck, trailer and mobile markets.
- Used on water, oil and coolant lines.
- Forged brass construction with steel handle.
- Temperature range -40° - 250°
- Max pressure 250 psi
- Metal to metal seats for high heat/ fluid compatibility
- Fine thread screw down to afford flow control ability and a positive seal.
- Not intended for natural gas, LPG, Nuclear or aircraft applications

200 PSI

TV44

BARB TO MALE PIPE

PART #	SIZE	
46450	3/8 x 3/8	----
46451	5/8 x 3/8	----
46455	5/8 x 1/2	----
46457	3/4 x 3/8	----
46456	3/4 x 1/2	----

404V

TV45

FEMALE TO MALE PIPE

PART #	SIZE	
46465	3/8 x 3/8	----
46466	3/8 x 1/2	----
46467	1/2 x 1/2	----

405V

TV49

FLARE TO MALE PIPE

PART #	SIZE	
46475	1/2 x 1/2	----
46476	5/8 x 1/2	----

409V

TV412

MIP X FLARE

PART #	SIZE	
46485	1/2 x 5/8	----

SOLID BOTTOM VALVES

- Designed for instantaneous on-off operation.
- 360⁰ rotation standard.
- 30 PSI
- Packed with grease.

8875

O-RING SEALED MIP X FIP

PART #	SIZE	
46400	1/8	----
46401	1/4	----
46402	3/8	----

1035D **M-70-SBV**

- Good for Propane

#M-72-SBV
FIP X FIP

PART #	SIZE	
46411	1/4	----

SOLID BOTTOM FUEL VALVES

- Approved for use on Motorcraft fuel lines.
- Pointer lever.
- 90⁰ turn stop mechanism to assure positive location of the on and off positions.
- Corrosion proofed internal construction assures maximum salt atmosphere protection.
- Port hole is 1/4 (.250) diameter.
- UL listed for use in fuel oils no. 1 & no. 2, LP gas and utility gas.

PIPE MALE X FEMALE

PART #	SIZE	
46400M	1/8 x 1/8	----
46401M	1/4 x 1/4	----
46402M	3/8 x 3/8	----

8980

PIPE
MALE X MALE

PART #	SIZE	
46406M	1/4 x 1/4	----

8990

- Good for Propane

PIPE FEMALE X FEMALE

PART #	SIZE	
46411M	1/4 x 1/4	----

8975

MALE PIPE X FLARE

PART #	SIZE	
46429M	1/4 x 3/8	----
46430M	3/8 x 3/8	----

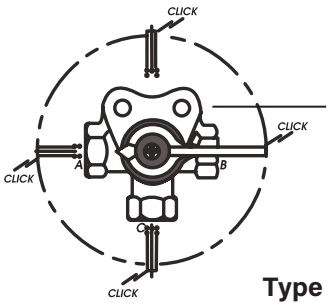
8948

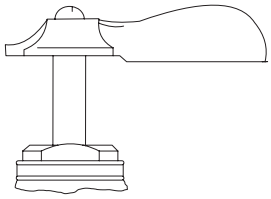
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GROUND PLUG SHUT-OFF COCKS

NON-LUBRICATED PLUG VALVES are designed to operate in systems where INSTANTANEOUS PORT SELECTION is desired. Since LUBRICANTS ARE NOT USED, relubrication is not required. There is no lubricant to freeze and lock the valve or to contaminate fine fluids. The O-RING SEALED CAP and STEM eliminate leakage to atmosphere. The mating BRASS BODY and CELCON PLUG produce a fine seal that WILL NOT SEIZE OR GALL.

Designed for PANEL or BRACKET MOUNTING. They are generally recommended for operation in GASOLINE, OIL, AIR, WATER and DETERGENT systems from minus 40⁰ to 180⁰F, at a maximum operating pressure of 30 p.s.i.g. The fluid port size is 9/32 (.281) diameter for 1/8 and 1/4 sizes, 5/16 (.312) diameter for the 3/8 size. **(Consult factory for applications**

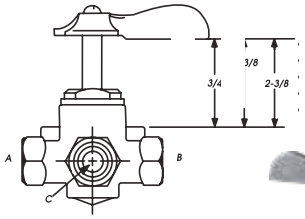




PANEL MOUNTING AVAILABLE

Type 1 (Standard)
A pronounced "click" may be felt at each position.

THREE-WAY VALVES (Side Outlet)



- 1-3/8" Stem
- Side Outlet
- Bracket Mounting
- O-Ring Sealed
- 4-way celcon roter standard

LESS CLICK

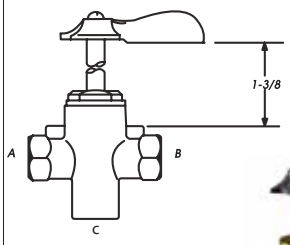
PART #	A-B-C FEMALE PIPE THREAD	LENGTH OF STEM	
46247	1/4	1-3/8"	----
46248	3/8	1-3/8"	----

M-108-MID WITH CLICK 360⁰

PART #	A-B-C FEMALE PIPE THREAD	LENGTH OF STEM	
46250	1/8	1-3/8"	----
46251	1/4	1-3/8"	----
46252	3/8	1-3/8"	----

V406P 6749

THREE-WAY VALVES (Bottom Outlet)



- 1-3/8" Stem
- Side Outlet
- Bracket Mounting
- O-Ring Sealed
- 4-way celcon roter standard

LESS CLICK

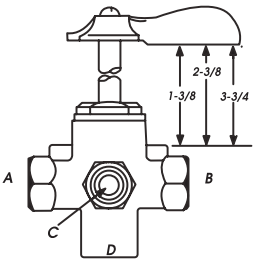
PART #	A-B-C FEMALE PIPE THREAD	LENGTH OF STEM	
46241	1/4	1-3/8"	----

WITH CLICK 360⁰

PART #	A-B-C FEMALE PIPE THREAD	LENGTH OF STEM	
46243	1/8	1-3/8"	----
46244	1/4	1-3/8"	----

Openings:
Handle *Pointer* over A.....Valve Open A-C
Handle *Pointer* over B.....Valve Open B-C
Handle *Pointer* over Bracket.....Valve "OFF"

FOUR-WAY VALVES



- Side Outlet
- Bracket Mounting
- O-Ring Sealed
- 4-way celcon roter standard

LESS CLICK

PART #	A-B-C-D FEMALE PIPE THREAD	LENGTH OF STEM	
46257	1/4	1-3/8"	----

M-114-MID WITH CLICK (360⁰)

PART #	A-B-C-D FEMALE PIPE THREAD	LENGTH OF STEM	
46255	1/4	1-3/8"	----
46256	3/8	1-3/8"	----

WITH 2-3/8" LONG STEM M-115-MID

Part #	A-B-C-D Female Pipe Thread	Length of Stem	
46260	1/4	2-3/8"	----

Openings:
Handle *Pointer* over A.....Valve Open A-D
Handle *Pointer* over C.....Valve Open C-D
Handle *Pointer* over B.....Valve Open B-D
Handle *Pointer* over Bracket.....Valve "OFF"

Openings:
Handle Pointer over A.....Valve Open A-C
Handle Pointer over C.....Valve Open B-C
Handle Pointer over B.....Valve "OFF"
Handle Pointer over Bracket.....Valve "OFF"

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MARINE FITTINGS
BRASS FITTINGS

- Calibrated to support 30" column of gasoline.

BRASS ANTI-SIPHON VALVES

PART #	SIZE	
46520	1/4 x 1/4	----
46521	3/8 x 3/8	----
46522	1/2 x 1/2	----

ALUMINUM

PART #	SIZE	
46520A	1/4 x 1/4	----
46521A	3/8 x 3/8	----

- Flo direction <-

BRASS ANTI-SIPHON VALVES
BARB X NPT

PART #	SIZE	
46529	1/4 x 1/4	----
46530	5/16 x 1/4	----
46531	3/8 x 1/4	----
46532	3/8 x 3/8	----
46533	1/2 x 3/8	----

ALUMINUM

PART #	SIZE	
46530A	5/16 x 1/4	----
46531A	3/8 x 1/4	----
46532A	3/8 x 3/8	----
46533A	1/2 x 3/8	----

MINI BALL VALVE - BRASS W/ SS HANDLE AND NUT

PART #	BARB X MIP	
46986	5/6 x 1/4	----
46987	3/8 x 1/4	----
46988	3/8 x 3/8	----
46989	1/2 x 1/2	----

- NBR O-Ring
- Working temp 180°F
- 3,000 PSI
- Brass or Aluminum
- #316 Ball & Spring

MALE MIP X FEMALE FIP BRASS

PART #	SIZE	
46523	1/4	----
46524	3/8	----

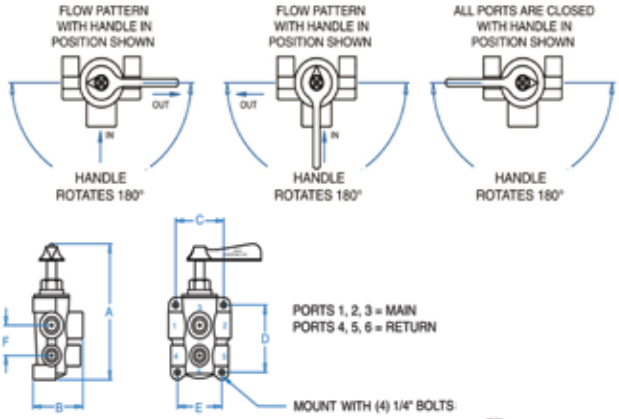
ALUMINUM

PART #	SIZE	
46523A	1/4	----
46524A	3/8	----

FLARE X MIP - BRASS

PART #	SIZE	
46526	3/8 x 1/4	----

SIX PORT VALVES



Six port fuel valves are used where 2 tanks supply a single engine, and a return to each supply tank is required.

ABYC H33.9.2 states that fuel system valves must have an independent means of support, so in-line valves are not

PART #	IND. #	FEMALE PIPE THREAD OF 1-2-3 4-5-6	STEM	LENGTH TYPE	
46237	SK-1036	1/2 x 3/8	13/16	1	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MINIATURE BALL VALVES
BRASS FITTINGS

BRASS MINIATURE BALL VALVES

- Working Pressure up to 1000 P.S.I.G.
- ASTM B-16 Corrosion Resistant Brass Body.
- Non-Adjusting Viton O-Ring Stem Seal Design Never Needs Tightening.
- Highly Inert Teflon Seats.
- Long Life Nickel Plated Brass Ball.
- Blow-Out Proof Stem for Safety.
- Temperature: -40°F to 300°F
- 1/4 Turn Instantaneous On-Off Operation.
- Quarter Turn Handle Design.
- Water, Oil, and Air Pressure Systems.
- Ideal for tight, confined areas, or when routing aesthetics are desired. Applications

MALE X FEMALE

PART #	SIZE	
46900	1/8 x 1/8	----
46903	1/4 x 1/4	----

MALE X MALE

PART #	SIZE	
46910	1/8 x 1/8	----
46912	1/4 x 1/4	----

MALE PIPE X HOSE BARB

PART #	SIZE	
47042	1/8 x 1/4	----
46980	1/4 x 1/4	----
46981	1/4 x 3/8	----

FEMALE X FEMALE

PART #	SIZE	
46920	1/8 x 1/8	----
46921	1/8 x 1/4	----
46922	1/4 x 1/4	----

PART #	SIZE	
46922A	1/4 x 1/4	----
46923	3/8 x 3/8	----

PART #	SIZE	
46924	1/2 x 1/2	----
46925	3/4 x 3/4	----

U.L. TWO WAY VALVES

- Buna-N Seal, Teflon Seat Plated metal handle, plated brass ball.

U.L. TWO WAY VALVES

PART #	SIZE	
46440	1/4 x 1/4	----

U.L. TWO WAY VALVES

PART #	SIZE	
46443	1/4 x 1/4	----

PANEL MOUNT BRASS BALL VALVES

- Working pressure: 1500 psi wog for 1/8" to 1/4", 1000 psi wog for 3/8" to 1/2"
- Vacuum rating: 29.92" Hg
- Working temp: -40°F to +300°F
- Panel mount hole is 9/16" Dia.
- Brass body cap, PTFE ball seats, Viton stem sealing, Brass chrome

FEMALE X FEMALE

PART #	SIZE	
46830	1/8 x 1/8	----
46832	1/4 x 1/4	----
46833	3/8 x 3/8	----
46834	1/2 x 1/2	----

FEMALE X FEMALE

PART #	SIZE	
46875	1/8 x 1/8	----
46878	1/4 x 1/4	----

PART #	SIZE	
46951	1/8 FPT	----
46956	1/4 FPT	----

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CHECK VALVES
BRASS FITTINGS

BRASS CHECK VALVES

- 500 PSI ▪1 PSI Cracking Pressure
- Buna-N Seal for water, air & inert gas
- **Viton Seal for oil, gas & diesel fuel**

- 180° temp rating

FIP X FIP BUNA-N

PART #	SIZE	
46560	1/8"	----
46561	1/4"	----
46562	3/8"	----
46563	1/2"	----
46564	3/4"	----

FIP X FIP VITON

PART #	SIZE	
46560V	1/8"	----
46561V	1/4"	----
46562V	3/8"	----
46563V	1/2"	----
46564V	3/4"	----

FEMALE X MALE BUNA-N

PART #	SIZE	
46565	1/8"	----
46566	1/4"	----
46567	3/8"	----
46568	1/2"	----
46569	3/4"	----

MALE X MALE

PART #	SIZE	
46570	1/8"	----
46571	1/4"	----
46572	3/8"	----
46573	1/2"	----

MALE X FEMALE

PART #	SIZE	
46575	1/8"	----
46576	1/4"	----
46577	3/8"	----
46578	1/2"	----

HIGH PRESSURE CHECK VALVES

MAX. 2500 PSI
Cracking Pressure 1 PSI

- Opening diameter .187
- 180⁰ max operating temp.

•SS ball and spring

CV = 0.4

MNPT X MNPT

PART #	SIZE	OPENING DIA.	
46500	1/4 x 1/4	0.187	----

MAX. 2500 PSI

- Flo direction ->
- Opening diameter .187
- 180⁰ max operating temp.
- Buna Seal

•SS ball and spring

MNPT X FNPT

PART #	SIZE	OPENING DIA.	
46505	1/4 x 1/4	0.187	----

MAX. 1200 PSI

- O-Ring poppet seal Bubble tight operation
- 180°F max operating temp.

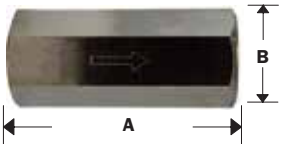
FNPT X FNPT

PART #	SIZE	OPENING DIA.	
46510	1/4 x 1/4	0.25	----
46511	3/8 x 3/8	0.375	----
46512	1/2 x 1/2	0.437	----

PNEUMATIC CHECK VALVES

- Max Operating Pressure: 220 psi
- Working Pressure: 14.5-145 psi
- Cracking Pressure: 2.8 psi
- Maximum Temperatures: 140° F

Body	Chrome plated Brass
Spring	Steel
O-Ring	NBR Rubber



NPT- Inlet NPSM - Outlet

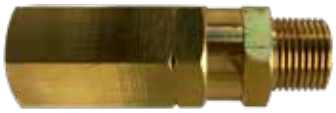
PART #	SIZE	DIMENSIONS (IN.)	
		A	B
46-200	1/4	1.97	0.67
46-201	3/8	1.97	0.83
46-202	1/2	2.48	0.98

HIGH PRESSURE CHECK VALVES

- Operates in any position, and is available in mixed or matched end combinations.
- Standard cracking pressure 1 p.s.i with a maximum operating pressure of 3000 p.s.i. and a maximum operating temperature of 180°F using Buna-N seals.
- Buna-N seals standard, other seals available.
- Guided 316 stainless steel ball + spring.
- Fixed ringed seat prevents extrusion of seal.
- Opening diameter .28
- Approximate CV 1.2
- Water G.P.M. @ 10 p.s.i. is 4.0
- Good for air

FEMALE X FEMALE

PART #	SIZE	
46513	1/4	----
46517	3/8	----



FEMALE X MALE

PART #	SIZE	
46514	1/4	----
46518	3/8	----

MALE X FEMALE

PART #	SIZE	
46516	1/4	----
46539	3/8	----

MALE X MALE

PART #	SIZE	
46515	1/4	----
46519	3/8	----

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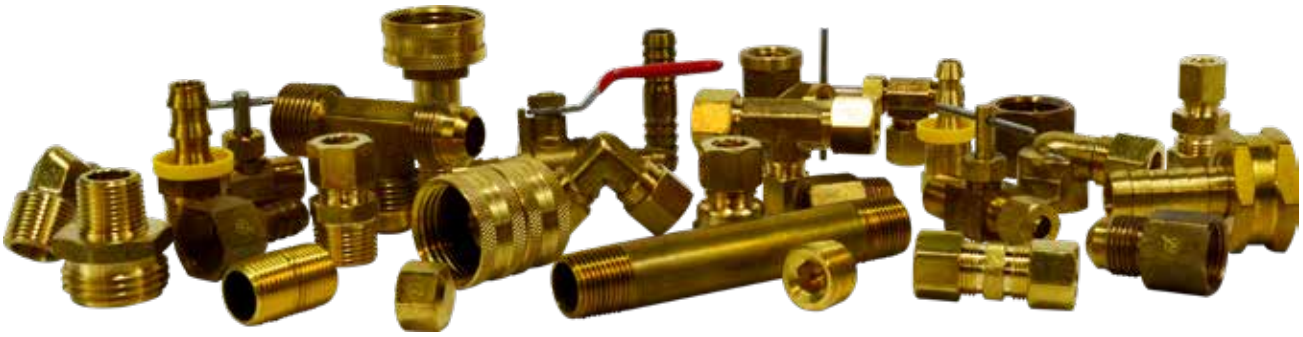
LEAD FREE



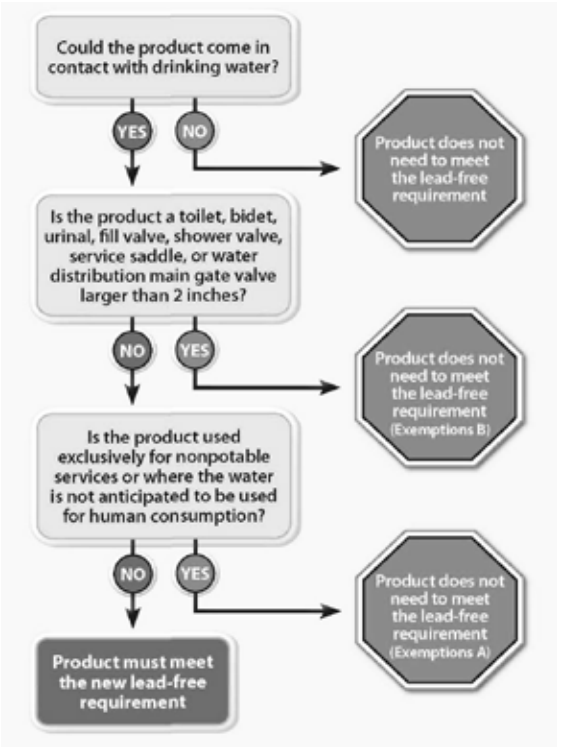
What is the new lead-free requirement?

In 2011, the Reduction of Lead in Drinking Water Act was signed into law. The Act has reduced the lead content allowed in drinking water system and plumbing materials by changing the definition of "lead-free" in Section 1417of the Safe Drinking Water Act.

*The term "lead-free" has been updated from notmore that 8% lead content to mean "**not more than a weighted average of 0.25% lead when used with respect to the wetted surfaces of pipes, pipe fittings, plumbing fittings and fixtures.**"*

How do I know which products must meet the new lead-free requirement?

The prohibitions on use and introduction into commerce apply to all pipe, pipe fittings, plumbing fittings, and fixtures (henceforth reffered to as "products"), including stocked inventories that have not been installed. This includes coated or uncoated brass or bronze materials. By using the flowchart below as a guide, you can determine if a product must meet the new lead-free requirement:



Lead-Free Requirement Exemptions

(A) The new requirement does not apply to pipes, pipe fittings, plumbing fittings, or fixtures, including backflow preventers, that are used exclusively for nonpotable service such as manufacturing, industrial processing, irrigation, outdoor watering or any other uses where the water is not anticipated to be used for human consumption.

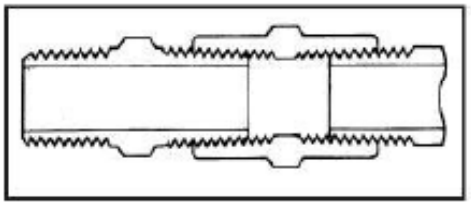
(B) The new requirement does not apply to toilets, bidets, urinals, fill valves, flushometer valves, tub fillers, shower valves, service saddles or water distribution main gate valves 2 inches in diameter or larger.

LEAD FREE PIPE
LEAD FREE BRASS FITTINGS

LEAD FREE

BRASS PIPE FITTINGS LEAD FREE

- One piece construction, available in barstock or forgings
- Used with brass or steel pipe
- All pipe threads are "American Standard Taper Pipe Threads"
- Fair vibration resistance
- Used in low to medium pressure applications
- Teflon tape or pipe sealant is recommended
- Pipe threads should be tightened 2 1/2 turns past finger tight



Nominal Pipe Size	1/8	1/4	3/8	1/2	3/4	1
Thread size	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1-11 1/2
Approx. Diameter in inches	3/8"	1/2"	5/8"	3/4"	1"	1-3/8"

BRASS PIPE FITTINGS

ELBOW 90° BARSTOCK

LF100

PART #	SIZE	
28001LF	1/8"	----
28002LF	1/4"	----
28003LF	3/8"	----
28004LF	1/2"	----
28005LF	3/4"	----

ELBOW 90° FORGED

PART #	SIZE	
28009LF	1/8"	----
28010LF	1/4"	----
28011LF	3/8"	----
28012LF	1/2"	----
28013LF	3/4"	----

REDUCING ELBOW FORGED

PART #	SIZE	
28015LF	3/8" x 1/4"	----

ELBOW 45°

LF10045

PART #	SIZE	
28018LF	1/8"	----
28019LF	1/4"	----

TEE BARSTOCK

LF101

PART #	SIZE	
28024LF	1/8"	----
28025LF	1/4"	----
28026LF	3/8"	----
28027LF	1/2"	----
28028LF	3/4"	----

TEE FORGED

PART #	SIZE	
28032LF	1/8"	----
28033LF	1/4"	----
28034LF	3/8"	----
28035LF	1/2"	----
28036LF	3/4"	----

REDUCING TEE FORGED

PART #	SIZE	
28039LF	3/8"x3/8"x1/4"	----

LEAD FREE PIPE

LEAD FREE BRASS FITTINGS

CROSS BARSTOCK

LF102

PART #	SIZE	
28041LF	1/8"	----
28042LF	1/4"	----
28043LF	3/8"	----
28044LF	1/2"	----
28045LF	3/4"	----

COUPLING

LF103

PART #	SIZE	
28058LF	1/8"	----
28059LF	1/4"	----
28060LF	3/8"	----
28061LF	1/2"	----
28062LF	3/4"	----

X-HEAVY COUPLING

PART #	SIZE	
28059EHLF	1/4"	----

UNION

LF104

PART #	SIZE	
28067LF	1/8"	----
28068LF	1/4"	----
28069LF	3/8"	----
28070LF	1/2"	----
28071LF	3/4"	----

CAP

LF108

PART #	SIZE	
28075LF	1/8"	----
28076LF	1/4"	----
28077LF	3/8"	----
28078LF	1/2"	----
28079LF	3/4"	----

PLUG CORED SQUARE HEAD

LF

PART #	SIZE	
28084LF	1/8"	----
28085LF	1/4"	----
28086LF	3/8"	----
28087LF	1/2"	----
28088LF	3/4"	----

PLUG SOLID SQUARE HEAD

LF109SD

PART #	SIZE	
28084SLF	1/8"	----
28085SLF	1/4"	----
28086SLF	3/8"	----
28087SLF	1/2"	----
28088SLF	3/4"	----

COUNTERSUNK PLUG HEX

LF109AL

PART #	SIZE	
28093LF	1/8"	----
28094LF	1/4"	----
28095LF	3/8"	----
28096LF	1/2"	----
28097LF	3/4"	----

PLUG CORED HEX HEAD

LF121

PART #	SIZE	
28201LF	1/8"	----
28202LF	1/4"	----
28203LF	3/8"	----
28204LF	1/2"	----
28205LF	3/4"	----

PLUG SOLID HEX HEAD

PART #	SIZE	
28201SLF	1/8"	----
28202SLF	1/4"	----
28203SLF	3/8"	----
28204SLF	1/2"	----

HEX BUSHING

LF110

PART #	SIZE	
28102LF	1/4" x 1/8"	----
28103LF	3/8" x 1/8"	----
28104LF	3/8" x 1/4"	----
28105LF	1/2" x 1/8"	----
28106LF	1/2" x 1/4"	----
28107LF	1/2" x 3/8"	----
28108LF	3/4" x 1/8"	----
28109LF	3/4" x 1/4"	----
28110LF	3/4" x 3/8"	----
28111LF	3/4" x 1/2"	----
28112LF	1" x 1/4"	----
28113LF	1" x 3/8"	----
28114LF	1" x 1/2"	----
28115LF	1" x 3/4"	----

FACE BUSHING

LF110F

PART #	SIZE	
28121LF	1/4" x 1/8"	----
28116LF	3/8" x 1/4"	----
28117LF	1/2" x 3/8"	----
28118LF	3/4" x 1/2"	----

LEAD FREE PIPE
LEAD FREE BRASS FITTINGS

LEAD FREE

CLOSE NIPPLE

LF112

PART #	SIZE	
28131LF	1/8"	----
28132LF	1/4"	----
28133LF	3/8"	----
28134LF	1/2"	----
28135LF	3/4"	----

LONG NIPPLE

LF113

PART #	SIZE	
28140LF	1/8" x 1-1/2"	----
28141LF	1/8" x 2"	----
28142LF	1/8" x 2-1/2"	----
28143LF	1/8" x 3"	----
28144LF	1/4" x 1-1/2"	----
28145LF	1/4" x 2"	----
28146LF	1/4" x 2-1/2"	----
28147LF	1/4" x 3"	----
28148LF	3/8" x 1-1/2"	----
28149LF	3/8" x 2"	----

HEX NIPPLE

LF23325X
LF122

PART #	SIZE	
28211LF	1/8"	----
28212LF	1/4"	----
28213LF	3/8"	----
28214LF	1/2"	----
28215LF	3/4"	----
28216LF	1"	----

LONG HEX NIPPLE

PART #	SIZE	
28212EHLF	1/4"	----

REDUCING HEX NIPPLE

LF123

PART #	SIZE	
28220LF	1/4" x 1/8"	----
28221LF	3/8" x 1/8"	----
28222LF	3/8" x 1/4"	----
28223LF	1/2" x 1/8"	----
28224LF	1/2" x 3/8"	----
28225LF	3/4" x 1/2"	----

REDUCING COUPLING

LF119

PART #	SIZE	
28181LF	1/4" x 1/8"	----
28182LF	3/8" x 1/8"	----
28183LF	3/8" x 1/4"	----
28180LF	1/2" x 1/8"	----
28184LF	1/2" x 1/4"	----
28185LF	1/2" x 3/8"	----
28189LF	3/4" x 1/2"	----

ADAPTER

LF120

PART #	SIZE	
28190LF	1/8" x 1/8"	----
28191LF	1/4" x 1/8"	----
28192LF	1/4" x 1/4"	----
28198LF	3/8" x 1/8"	----
28193LF	3/8" x 1/4"	----
28194LF	3/8" x 3/8"	----
28199LF	1/2" x 1/4"	----
28195LF	1/2" x 3/8"	----
28196LF	1/2" x 1/2"	----
28208LF	3/4" x 1/2"	----
28209LF	3/4" x 3/4"	----

* Forged and Barstock shapes may be substituted for one another in Lead Free.

SHORT BARSTOCK* STREET ELBOW 90°

PART #	SIZE	
28156SLF	1/8"	----
28157SLF	1/4"	----
28158SLF	3/8"	----
28159SLF	1/2"	----
28160SLF	3/4"	----

BARSTOCK* ST ELBOW

LF116

PART #	SIZE	
28156LF	1/8"	----
28157LF	1/4"	----
28158LF	3/8"	----
28159LF	1/2"	----
28160LF	3/4"	----

STREET ELBOW 90° FORGED*

PART #	SIZE	
28165LF	1/8"	----
28166LF	1/4"	----
28167LF	3/8"	----
28168LF	1/2"	----
28169LF	3/4"	----

REDUCING STREET ELBOW FORGED*

PART #	SIZE	
28261LF	1/4" x 1/8"	----
28262LF	1/4" x 3/8"	----
28264LF	3/8" x 1/2"	----
28265LF	1/2" x 3/8"	----

LEAD FREE PIPE/ LEAD FREE PUSH-ON

LEAD FREE BRASS FITTINGS

STREET ELBOW 45°

LF124

PART #	SIZE	
28230LF	1/8"	----
28231LF	1/4"	----
28232LF	3/8"	----
28233LF	1/2"	----
28234LF	3/4"	----

STREET TEE BARSTOCK

LF127

PART #	SIZE	
28245LF	1/8"	----
28246LF	1/4"	----
28247LF	3/8"	----
28248LF	1/2"	----
28249LF	3/4"	----

STREET TEE FORGED

PART #	SIZE	
28253LF	1/8"	----
28254LF	1/4"	----
28255LF	3/8"	----

ELBOW BARSTOCK

PART #	SIZE	
28266BLF	1/8"	----
28267BLF	1/4"	----

ELBOW FORGED

PART #	SIZE	
28266LF	1/8"	----
28267LF	1/4"	----
28268LF	3/8"	----
28269LF	1/2"	----

REDUCING ELBOW

PART #	SIZE	
28273LF	1/4" x 1/8"	----
28272LF	3/8" x 1/8"	----
28275LF	3/8" x 1/4"	----
28276LF	1/2" x 3/8"	----

TEE BARSTOCK

LF131

PART #	SIZE	
28281LF	1/8"	----
28282LF	1/4"	----
28283LF	3/8"	----
28284LF	1/2"	----

TEE FORGED

PART #	SIZE	
28290LF	1/8"	----
28291LF	1/4"	----
28292LF	3/8"	----

PUSH-ON

MALE ADAPTER

PART #	HOSE I.D. X MALE NPTF	
30200LF	1/4" x 1/8"	----
30201LF	1/4" x 1/4"	----
30203LF	3/8" x 1/4"	----
30204LF	3/8" x 3/8"	----
30206LF	1/2" x 3/8"	----
30207LF	1/2" x 1/2"	----

SAE/JIC DUAL 45°/37° FEMALE SWIVEL

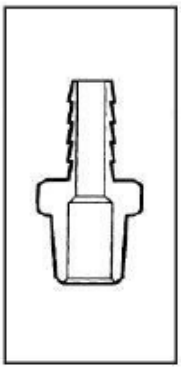
PART #	HOSE I.D. X FEMALE 45°/37°	
30230LF	1/4" x 1/4"	----

LEAD FREE HOSE BARBS
LEAD FREE BRASS FITTINGS

LEAD FREE

BRASS HOSE BARBS LEAD FREE

- One piece, except swivels (nut and stem)
- Used with plastic tubing or rubber hose
- -40° to 200° F. temperature range
- Intended for use with hose clamp or crimp type ferrule
- Barbed edges provide positive connection
- Excellent vibration resistance
- Barb size is hose I.D.



RIGID MALE ADAPTER

LF29

PART #	HOSE I.D. X MALE NPTF	
32001LF	1/8" x 1/8"	----
32027LF	1/8" x 1/4"	----
32002LF	3/16" x 1/8"	----
32003LF	3/16" x 1/4"	----
32004LF	1/4" x 1/8"	----
32005LF	1/4" x 1/4"	----
32006LF	1/4" x 3/8"	----
32007LF	1/4" x 1/2"	----
32954LF	1/4" x 3/4"	----
32008LF	5/16" x 1/8"	----
32009LF	5/16" x 1/4"	----
32010LF	5/16" x 3/8"	----
32011LF	3/8" x 1/8"	----
32012LF	3/8" x 1/4"	----
32013LF	3/8" x 3/8"	----
32014LF	3/8" x 1/2"	----
32026LF	3/8" x 3/4"	----
32015LF	1/2" x 1/4"	----
32016LF	1/2" x 3/8"	----
32017LF	1/2" x 1/2"	----
32018LF	1/2" x 3/4"	----
32019LF	5/8" x 3/8"	----
32020LF	5/8" x 1/2"	----
32021LF	5/8" x 3/4"	----
32306LF	3/4" x 3/8"	----
32022LF	3/4" x 1/2"	----
32023LF	3/4" x 3/4"	----
32024LF	1" x 3/4"	----
32025LF	1" x 1"	----

FORGED HOSE BARB 90° ELBOW

LF29EBS

PART #	HOSE I.D. X MALE NPTF	
32038LF	1/4" x 1/8"	----
32039LF	1/4" x 1/4"	----
32309LF	1/4" x 3/8"	----
32036LF	5/16" x 1/8"	----
32040LF	5/16" x 1/4"	----
32046LF	3/8" x 1/8"	----
32041LF	3/8" x 1/4"	----
32042LF	3/8" x 3/8"	----
32047LF	3/8" x 1/2"	----
32048LF	1/2" x 1/4"	----
32043LF	1/2" x 3/8"	----
32311LF	1/2" x 1/2"	----
32313LF	3/4" x 1/2"	----

MENDER/ SPLICER

PART #	HOSE I.D. X HOSE I.D.	
32091LF	1/8"	----
32092LF	3/16"	----
32093LF	1/4"	----
32094LF	5/16"	----
32095LF	3/8"	----
32096LF	1/2"	----
32097LF	5/8"	----
32098LF	3/4"	----

RIGID FEMALE ADAPTER

LF29F

PART #	HOSE I.D. X FE-MALE NPTF	
32050LF	1/8" x 1/8"	----
32317LF	1/8" x 1/4"	----
32051LF	3/16" x 1/8"	----
32062LF	3/16" x 1/4"	----
32052LF	1/4" x 1/8"	----
32053LF	1/4" x 1/4"	----
32054LF	1/4" x 3/8"	----
32441LF	1/4" x 1/2"	----
32055LF	5/16" x 1/8"	----
32056LF	5/16" x 1/4"	----
32318LF	5/16" x 3/8"	----
32057LF	3/8" x 1/8"	----
32058LF	3/8" x 1/4"	----
32059LF	3/8" x 3/8"	----
32063LF	3/8" x 1/2"	----
32064LF	1/2" x 1/4"	----
32060LF	1/2" x 3/8"	----
32061LF	1/2" x 1/2"	----
32065LF	3/4" x 3/4"	----

HOSE BARB TEES

PART #	HOSE BARB SIZE	
32365LF	1/4"	----
32366LF	5/16"	----
32126LF	3/8"	----

FEMALE 45° FLARE SWIVEL

PART #		
32101LF	1/4" x 1/4"	----
32105LF	3/8" x 3/8"	----
32100LF	1/2" x 1/2"	----

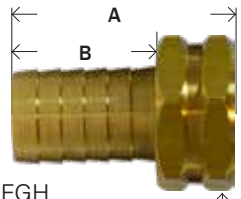
LEAD FREE MINI BALL VALVES BARB X BARB

PART #	H.B. X H.B.	
944142LF	1/4"	----
944134LF	3/8"	----

LEAD FREE GARDEN HOSE
LEAD FREE BRASS FITTINGS

BARSTOCK BRASS GARDEN HOSE COUPLINGS

FEMALE SWIVEL ONLY

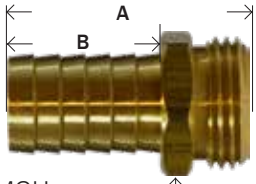


LF29FGH

• WASHER INCLUDED

PART #	HOSE BARB X FGH	
30031LF	3/8″ x 3/4"	----
30032LF	1/2″ x 3/4"	----
30033LF	5/8″ x 3/4"	----

MALE END ONLY



LF29MGH

PART #	HOSE BARB X MGH	
30039LF	3/8″ x 3/4"	----
30040LF	1/2″ x 3/4"	----
30041LF	5/8″ x 3/4"	----
30042LF	3/4″ x 3/4"	----

GARDEN HOSE COUPLING

• WASHER INCLUDED

PART #	HOSE BARB	
30025LF	3/8″	----
30027LF	1/2″	----
30028LF	5/8″	----
30029LF	3/4″	----

SWIVEL - FGH X FGH

LFS3

• WASHER INCLUDED

PART #	FGH X FGH	
30011LF	3/4″ x 3/4"	----
30012LF	no swivel	----

SWIVEL - FGH X FEMALE PIPE

LFS1
LFS2

• WASHER INCLUDED

PART #	FGH X FEMALE NPTF	
30001LF	3/4″ x 1/2″	----
30006LF	3/4″ x 3/4″	----

RIGID - FGH X FEMALE PIPE

• WASHER INCLUDED

PART #	FGH X FEMALE NPTF	
30016LF	3/4" x 1/8"	----
30078LF	3/4" x 1/2"	----
30083LF	3/4″ x 3/4″	----

SWIVEL - FGH X MALE PIPE

• WASHER INCLUDED

PART #	FGH X MALE NPTF	
30047LF	3/4″ x 1/4″	----
30048LF	3/4″ x 3/8″	----
30049LF	3/4″ x 1/2″	----

RIGID - FGH X MALE PIPE

• WASHER INCLUDED

PART #	FGH X FEMALE NPTF	
30088LF	3/4″ x 1/2"(1/2"SWT)	----

RIGID - MGH X MGH

LF85GHT

PART #	MGH X MGH	
30098LF	3/4″ x 3/4″ (1/2" FIP)	----

RIGID - MGH X FEMALE PIPE

LF110GH-124

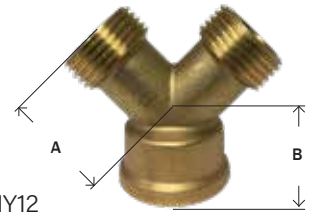
PART #	MGH X FEMALE NPTF	
30066LF	3/4" x 1/4"	----
30067LF	3/4" x 3/8"	----
30068LF	3/4" x 1/2"	----
30073LF	3/4″ x 3/4″	----

RIGID - MGH X MALE PIPE

LF68GH1216

PART #	MGH X MALE NPTF	
30052LF	3/4" x 1/4"	----
30053LF	3/4″ x 3/8″	----
30058LF	3/4″ x 1/2″	----
30058SLF	3/4" x 1/2" (1/2" SWT)	----
30063LF	3/4″ x 3/4″ x 1/2″	----

CAST BRASS HOSE - "Y" CONNECTOR



LFHY12

PART #	SIZE FGH X MGH(2)	
30140LF	3/4″	----

GARDEN HOSE CAP

LFHC-12W

PART #	SIZE	
30103LF	3/4″ Die Cast	----

GARDEN HOSE NUT

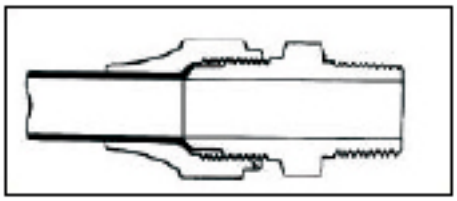
PART #	SIZE	
30021LF	Knurled	----
30022LF	Hex Nut	----

LEAD FREE FLARE
LEAD FREE BRASS FITTINGS

LEAD FREE

45° s.a.e. brass flare fittings

- Two pieces construction – nut and body
- Use with copper, brass, aluminum, or steel tubing
- -40° to +250° F. temperature range
- Resists mechanical pullout
- Easy to disassemble and can be reassembled many times, with no effect on the seal
- Primary uses: fuel equipment, plumbing, gases, refrigeration, and vacuum lines
- Meet functional requirements for SAE, ASME and ASA codes for pressure piping



TO ASSEMBLE:
1 Cut smooth, square end on tubing
2 Slide nut onto tube - threads facing end
3 Flare end of tube
4 Thread nut to body until snug, then

Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
Thread Size	5/16-24	3/8-24	7/16-20	1/2-20	5/8-18	11/16-16	3/4-16	7/8-14	11/16-14	1-1/4-12	1 3/8-12

SHORT ROD NUT

LF41S
LF41XS

PART #	THREAD SIZE UNF	
10013LF	1/8"	----
10014LF	3/16"	----
10015LF	1/4"	----
10016LF	5/16"	----
10017LF	3/8″	----
10018LF	7/16"	----
10019LF	1/2″	----
10020LF	5/8"	----
10021LF	3/4"	----

SHORT FORGED NUT

PART #	THREAD SIZE UNF	
10039LF	1/4"	----
10041LF	3/8″	----
10052LF	3/8" x 1/4"	----
10042LF	1/2″	----
10054LF	1/2" x 3/8"	----
10043LF	5/8"	----
10056LF	5/8" x 1/2"	----
10044LF	3/4"	----

UNION

LF242

PART #	THREAD SIZE UNF	
10104LF	1/8"	----
10105LF	3/16"	----
10106LF	1/4″	----
10107LF	5/16"	----
10108LF	3/8″	----
10118LF	3/8" x 1/4"	----
10109LF	1/2″	----
10120LF	1/2" x 1/4"	----
10121LF	1/2" x 3/8"	----
10110LF	5/8″	----
10122LF	5/8" x 3/8"	----
10123LF	5/8" x 1/2"	----
10111LF	3/4"	----

CAP

LF40

PART #	THREAD SIZE UNF	
10075LF	1/4″	----
10076LF	5/16"	----
10077LF	3/8″	----
10078LF	1/2″	----
10079LF	5/8″	----
10080LF	3/4"	----

UNION TEE

PART #	SIZE (1 X 2 X 3)	
10157LF	1/8"	----
10158LF	3/16"	----
10159LF	1/4"	----
10160LF	5/16"	----
10161LF	3/8"	----
10162LF	1/2"	----
10163LF	5/8"	----

REDUCING UNION TEE

PART #	SIZE (1 X 2 X 3)	
10174LF	3/8" x 3/8" x 1/4"	----
10175LF	3/8" x 3/8" x 1/2"	----
10181LF	1/2" x 1/2" x 3/8"	----
10182LF	1/2" x 1/2" x 5/8"	----
10189LF	5/8" x 5/8" x 1/2"	----

PLUG

LF39

PART #	THREAD SIZE UNF	
10064LF	1/4"	----
10066LF	3/8"	----
10067LF	1/2"	----
10068LF	5/8"	----

LEAD FREE FLARE

LEAD FREE BRASS FITTINGS

FEMALE ADAPTER

LF46

PART #	MALE FLARE X FEMALE NPTF	
10227LF	3/16" x 1/8"	----
10228LF	1/4" x 1/8"	----
10229LF	1/4" x 1/4"	----
10230LF	1/4" x 3/8"	----
10231LF	1/4" x 1/2"	----
10232LF	5/16" x 1/8"	----
10233LF	5/16" x 1/4"	----
10234LF	3/8" x 1/8"	----
10235LF	3/8" x 1/4"	----
10236LF	3/8″ x 3/8″	----
10237LF	3/8″ x 1/2″	----
10238LF	3/8" x 3/4"	----
10239LF	1/2" x 1/4"	----
10240LF	1/2″ x 3/8″	----
10241LF	1/2″ x 1/2″	----
10242LF	1/2″ x 3/4″	----
10243LF	5/8" x 3/8"	----
10244LF	5/8" x 1/2"	----
10245LF	5/8" x 3/4"	----
10247LF	3/4" x 3/4"	----

MALE BRANCH TEE

PART #	SIZE	
10204LF	1/4" x 1/8"	----
10205LF	1/4" x 1/4"	----
10206LF	1/4" x 3/8"	----
10210LF	3/8" x 1/4"	----
10211LF	3/8" x 3/8"	----
10212LF	3/8" x 1/2"	----
10214LF	1/2" x 3/8"	----
10215LF	1/2" x 1/2"	----
10218LF	5/8" x 1/2"	----

FORGED SWIVEL

LF700

PART #	FEMALE FLARE UNF	
10481LF	1/4"	----
10482LF	5/16"	----
10483LF	3/8″	----
10484LF	1/2″	----
10485LF	5/8″	----
10487LF	3/8" x 1/4"	----
10488LF	1/2" x 3/8"	----

MALE ADAPTER

LF48
LF248

PART #	MALE FLARE X MALE NPTF	
10253LF	1/8" x 1/8"	----
10254LF	3/16" x 1/8"	----
10252LF	3/16" x 1/4"	----
10255LF	1/4″ x 1/8″	----
10256LF	1/4″ x 1/4″	----
10256EHLF	1/4″ x 1/4″	----
10257LF	1/4" x 3/8"	----
10258LF	1/4″ x 1/2″	----
10259LF	5/16" x 1/8"	----
10260LF	5/16" x 1/4	----
10261LF	5/16" x 3/8"	----
10251LF	5/16" x 1/2"	----
10262LF	3/8″ x 1/8″	----
10263LF	3/8″ x 1/4″	----
10264LF	3/8″ x 3/8″	----
10265LF	3/8″ x 1/2″	----
10266LF	3/8" x 3/4"	----
10267LF	1/2" x 1/4"	----
10268LF	1/2″ x 3/8″	----
10269LF	1/2″ x 1/2″	----
10270LF	1/2″ x 3/4″	----
10272LF	5/8" x 3/8	----
10273LF	5/8" x 1/2"	----
10274LF	5/8" x 3/4"	----
10275LF	3/4" x 1/2"	----
10276LF	3/4″ x 3/4″	----
10278LF	7/8" x 3/4"	----

UNION ELBOW

BS
LF255B

PART #	FLARE X FLARE	
10406LF	1/4"	----
10407LF	3/8"	----
10409LF	1/2"	----
10419LF	1/2" x 3/8"	----

FLARE X FIP TEE

PART #	FLARE X FLARE X FE PIPE	
10434LF	1/2" x 1/2" x 1/2"	----

90° MALE ELBOW

LF249B
BS

FORGED ELBOW

PART #	FLARE X MALE PIPE	
10284LF	3/16" x 1/8"	----
10286LF	1/4″ x 1/8″	----
10287LF	1/4″ x 1/4″	----
10288LF	1/4″ x 3/8″	----
10289LF	1/4″ x 1/2″	----
10290LF	5/16" x 1/8"	----
10291LF	5/16" x 1/4	----
10293LF	3/8" x 1/8"	----
10294LF	3/8″ x 1/4″	----
10295LF	3/8″ x 3/8″	----
10296LF	3/8″ x 1/2″	----
10297LF	3/8" x 3/4"	----
10298LF	1/2" x 1/4"	----
10299LF	1/2″ x 3/8″	----
10300LF	1/2″ x 1/2″	----
10301LF	1/2″ x 3/4″	----
10302LF	5/8" x 3/8"	----
10303LF	5/8" x 1/2"	----
10304LF	5/8" x 3/4"	----
10305LF	3/4" x 1/2"	----
10306LF	3/4" x 3/4"	----

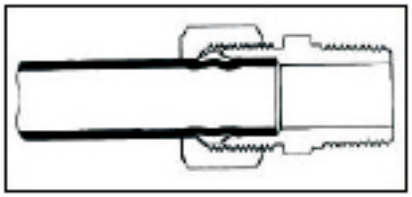
FEMALE ELBOW

PART #	FLARE X FE-MALE PIPE	
10313LF	1/4″ x 1/8″	----
10314LF	1/4″ x 1/4″	----
10319LF	3/8″ x 1/4″	----
10320LF	3/8″ x 3/8″	----
10321LF	3/8″ x 1/2″	----
10322LF	3/8" x 3/4"	----
10324LF	1/2″ x 3/8″	----
10325LF	1/2″ x 1/2″	----
10326LF	1/2″ x 3/4″	----
10328LF	5/8" x 1/2"	----
10329LF	5/8" x 3/4"	----
10331LF	3/4" x 3/4"	----

LEAD FREE COMPRESSION
LEAD FREE BRASS FITTINGS

LEAD FREE

BRASS COMPRESSION FITTINGS - LEAD FREE



- Three piece construction- nut, sleeve (or ferrule) and body
- Use with copper, aluminum, or plastic tubing (plastic requires 60P sleeve and 61P insert)
- -40° to +250° F. temperature range
- Easy to disassemble, no flaring tool required
- Primary uses: water, gasoline, oil, and vacuum lines

TO ASSEMBLE:
1 Cut smooth, square end on tubing
2 Slide nut, then sleeve onto tube. Threads must face end
3 Insert tube into fitting
4 Thread nut onto fitting until snug, then as follows:

Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8
Thread Size	5/16-24	3/8-24	7/16-24	1/2-24	9/16-24	5/8-24	11/16-20	13/16-18	1-18	1-1/8-18

BRASS COMPRESSION FITTINGS

BRASS SLEEVE

LF260

• FERRULES

PART #	SIZE	
18001LF	1/8"	----
18002LF	3/16"	----
18003LF	1/4"	----
18004LF	5/16"	----
18005LF	3/8"	----
18006LF	7/16"	----
18007LF	1/2"	----
18008LF	5/8"	----
18009LF	3/4"	----
18010LF	7/8"	----

60 260

DELRIN SLEEVE

PART #	SIZE	
18015	1/4"	----
18016	5/16"	----
18017	3/8"	----
18018	1/2"	----

60-P

BRASS NUT

LF261

PART #	SIZE	
18033LF	1/8"	----
18034LF	3/16"	----
18035LF	1/4"	----
18036LF	5/16"	----
18037LF	3/8"	----
18038LF	7/16"	----
18039LF	1/2"	----
18040LF	5/8"	----
18041LF	3/4"	----
18042LF	7/8"	----

BRASS INSERT

• SLEEVE

PART #	SIZE	
22008LF	1/8"	----
22009LF	3/16"	----
22010LF	1/4"	----
22011LF	5/16"	----
22012LF	3/8"	----
22013LF	1/2"	----

BRASS NUT W/ CAPTIVE SLEEVE

LF611X6

PART #	SIZE	
26001LF	1/8"	----
26002LF	3/16"	----
26003LF	1/4"	----
26004LF	5/16"	----
26005LF	3/8"	----
26007LF	1/2"	----
26008LF	5/8"	----
26015LF	3/4"	----
26016LF	7/8"	----

CAP

PART #	SIZE	
18047LF	1/4"	----
18046LF	5/16	----
18048LF	3/8"	----
18049LF	1/2"	----
18050LF	5/8"	----

61-CC N5CT

LEAD FREE COMPRESSION

LEAD FREE BRASS FITTINGS

UNION

LF262

PART #	SIZE	
18062LF	1/8"	----
18063LF	3/16"	----
18064LF	1/4"	----
18065LF	5/16"	----
18066LF	3/8"	----
18067LF	7/16"	----
18068LF	1/2"	----
18069LF	5/8"	----
18070LF	3/4"	----
18071LF	7/8"	----

M-62

REDUCING UNION

LF62R

PART #	SIZE	
18076LF	1/4" x 1/8"	----
18077LF	1/4" x 3/16"	----
18078LF	5/16" x 1/4"	----
18079LF	3/8" x 1/4"	----
18080LF	3/8" x 5/16"	----
18081LF	1/2" x 3/8"	----
18082LF	5/8" x 3/8"	----
18083LF	5/8" x 1/2"	----

62-R

TANK UNION

LF62T

▪ DRILLED THROUGH

PART #	SIZE	
18066DLF	3/8"	----
18068DLF	1/2"	----
18069DLF	5/8"	----
18071DLF	7/8"	----

TEE

LF264B

PART #	SIZE	
18101LF	1/8"	----
18102LF	3/16"	----
18103LF	1/4"	----
18104LF	5/16"	----
18105LF	3/8"	----
18106LF	1/2"	----
18107LF	5/8"	----
18109LF	7/8"	----

REDUCING TEE

LF264B

PART #	SIZE (1 X 2 X 3)	
18114LF	1/4" x 1/4" x 1/8"	----
18110LF	1/4" x 1/4" x 3/8"	----

64-R

ELBOW

LF265

PART #	SIZE	
18122LF	1/8"	----
18123LF	3/16"	----
18124LF	1/4"	----
18125LF	5/16"	----
18126LF	3/8"	----
18127LF	1/2"	----
18128LF	5/8"	----
18129LF	3/4"	----
18130LF	7/8"	----
18135LF	3/8" x 1/4"	----
18136LF	1/2" x 3/8"	----
18137LF	5/8" x 3/8"	----

65 BSE2 165C 265C

FEMALE COUPLING

LF66
LF266

PART #	COMP. X FEMALE NPT	
18142LF	1/8" x 1/8"	----
18143LF	3/16" x 1/8"	----
18144LF	3/16" x 1/4"	----
18145LF	1/4" x 1/8"	----
18146LF	1/4" x 1/4"	----
18147LF	1/4" x 3/8"	----
18148LF	1/4" x 1/2"	----
18149LF	5/16" x 1/8"	----
18150LF	5/16" x 1/4"	----
18151LF	5/16" x 3/8"	----
18152LF	3/8" x 1/8"	----
18153LF	3/8" x 1/4"	----
18154LF	3/8" x 3/8"	----
18155LF	3/8" x 1/2"	----
18156LF	3/8" x 3/4"	----
18157LF	1/2" x 1/4"	----
18158LF	1/2" x 3/8"	----
18159LF	1/2" x 1/2"	----
18160LF	1/2" x 3/4"	----
18161LF	5/8" x 3/8"	----
18162LF	5/8" x 1/2"	----
18163LF	5/8" x 3/4"	----
18164LF	3/4" x 1/2"	----
18165LF	3/4" x 3/4"	----
18167LF	7/8" x 1/2"	----

66

TANK COUPLING

▪ DRILLED THROUGH
COMP X FIP

PART #	SIZE	
18154DLF	3/8" x 3/8"	----
18155DLF	3/8" x 1/2"	----
18158DLF	1/2" x 3/8"	----
18159DLF	1/2" x 1/2"	----
18162DLF	5/8" x 1/2"	----

COMP X SWEAT ADAPTER

PART #	SIZE	
18171LF	3/8" x 1/2" nom.swt.	----

LEAD FREE COMPRESSION
LEAD FREE BRASS FITTINGS

MALE ADAPTER

LF68

COMP X MIP

PART #	SIZE	
18176LF	1/8″ x 1/8″	----
18177LF	3/16″ x 1/8″	----
18178LF	3/16″ x 1/4″	----
18179LF	1/4″ x 1/8″	----
18180LF	1/4″ x 1/4″	----
18181LF	1/4″ x 3/8″	----
18182LF	1/4″ x 1/2″	----
18183LF	5/16″ x 1/8″	----
18184LF	5/16″ x 1/4″	----
18185LF	5/16" x 3/8"	----
18186LF	5/16" x 1/2"	----
18187LF	3/8″ x 1/8″	----
18188LF	3/8″ x 1/4″	----
18189LF	3/8″ x 3/8″	----
18190LF	3/8″ x 1/2″	----
18191LF	3/8″ x 3/4″	----
18192LF	7/16″ x 1/4″	----
18204LF	7/16" x 3/8"	----
18193LF	1/2″ x 1/4″	----
18194LF	1/2″ x 3/8″	----
18195LF	1/2″ x 1/2″	----
18196LF	1/2″ x 3/4″	----
18197LF	5/8″ x 3/8″	----
18198LF	5/8″ x 1/2″	----
18199LF	5/8″ x 3/4″	----
18200LF	3/4" x 1/2"	----
18201LF	3/4″ x 3/4″	----
18202LF	7/8″ x 1/2″	----
18203LF	7/8″ x 3/4″	----
18205LF	7/8" x 1"	----

THE MAN WHO HAS NO INNER-LIFE IS A SLAVE TO HIS SURROUNDINGS.

- HENRI FREDERIC AMIEL

ELBOW

LF269B
LF69F

COMP X MIP

PART #	SIZE	
18220LF	1/8" x 1/8"	----
18221LF	3/16″ x 1/8″	----
18223LF	3/16" x 1/4"	----
18224LF	1/4" x 1/8"	----
18225LF	1/4″ x 1/4″	----
18226LF	1/4" X 3/8"	----
18227LF	1/4″ x 1/2″	----
18228LF	5/16″ x 1/8″	----
18229LF	5/16″ x 1/4″	----
18230LF	5/16" x 3/8"	----
18232LF	3/8″ x 1/8″	----
18233LF	3/8″ x 1/4″	----
18234LF	3/8″ x 3/8″	----
18235LF	3/8″ x 1/2″	----
18248LF	3/8" x 3/4"	----
18247LF	7/16" x 1/4"	----
18236LF	1/2″ x 1/4″	----
18237LF	1/2″ x 3/8″	----
18238LF	1/2″ x 1/2″	----
18239LF	1/2″ x 3/4″	----
18240LF	5/8″ x 3/8″	----
18241LF	5/8″ x 1/2″	----
18242LF	5/8″ x 3/4″	----
18243LF	3/4" x 1/2"	----
18245LF	3/4" x 3/4"	----

TANK CONNECTOR

LF68T

- DRILLED THROUGH

COMP X MIP

PART #	SIZE	
18177TLF	3/16" x 1/8"	----
18208LF	1/4" x 1/8"	----
18209LF	1/4" x 1/4"	----
18210LF	3/8" x 1/4"	----
18211LF	3/8" x 3/8"	----
18212LF	3/8" x 1/2"	----
18213LF	1/2" x 3/8"	----
18214LF	1/2" x 1/2"	----

FEMALE ELBOW

COMP X FIP

PART #	SIZE	
18251LF	1/8" x 1/8"	----
18252LF	3/16" x 1/8"	----
18253LF	1/4″ x 1/8″	----
18254LF	1/4″ x 1/4″	----
18267LF	1/4″ x 3/8″	----
18268LF	1/4" x 1/2"	----
18255LF	5/16" x 1/8"	----
18256LF	5/16" x 1/4"	----
18257LF	3/8" x 1/8"	----
18258LF	3/8" x 1/4"	----
18259LF	3/8″ x 3/8″	----
18260LF	3/8″ x 1/2″	----
18250LF	3/8" x 3/4"	----
18262LF	1/2″ x 3/8″	----
18263LF	1/2″ x 1/2″	----
18269LF	5/8" x 3/8"	----
18264LF	5/8″ x 1/2″	----

45° ELBOW

COMP X MIP

PART #	SIZE	
18330LF	1/4" x 1/8"	----
18336LF	1/4" x 1/4"	----
18333LF	3/8" x 1/4"	----
18338LF	3/8" x 3/8"	----
18334LF	1/2" x 3/8"	----
18339LF	1/2" x 1/2"	----
18335LF	5/8" x 1/2"	----

MALE RUN TEE

LF272

COMPRESSION X MIP

PART #	SIZE	
18273LF	3/16" x 1/8"	----
18274LF	1/4″ x 1/8″	----
18275LF	1/4″ x 1/4″	----
18276LF	5/16" x 1/8"	----
18277LF	5/16" x 1/4"	----
18279LF	3/8" x 1/4"	----
18280LF	3/8″ x 3/8″	----
18281LF	1/2″ x 3/8″	----

LEAD FREE COMPRESSION

LEAD FREE BRASS FITTINGS

MALE BRANCH TEE

COMP X MIP

PART #	SIZE	
18289LF	1/8" x 1/8"	----
18290LF	3/16" x 1/8"	----
18291LF	1/4" x 1/8"	----
18292LF	1/4" x 1/4"	----
18293LF	5/16" x 1/8"	----
18294LF	5/16" x 1/4"	----
18295LF	3/8" x 1/8"	----
18296LF	3/8" x 1/4"	----
18297LF	3/8" x 3/8"	----
18299LF	1/2" x 3/8"	----
18300LF	1/2" x 1/2"	----
18301LF	5/8" x 1/2"	----

TEE

COMP X FIP X MIP

PART #	SIZE	
18307LF	1/4" x 1/8 x 1/8"	----

TEE

FIP X MIP X COMP

PART #	SIZE	
18315LF	1/4" x 1/4" x 1/4"	----

FEMALE BRANCH TEE

COMP X FIP

PART #	SIZE	
18325LF	3/8" x 1/8"	----
18322LF	3/8" x 1/4"	----
18323LF	3/8" x 3/8"	----
18327LF	5/8" x 1/8"	----

FEMALE ADAPTER

COMPRESSION X FEMALE FLARE

PART #	SIZE	
18502LF	1/4" x 1/4"	----

MALE ADAPTER

COMPRESSION X MALE FLARE

PART #	SIZE	
18503LF	1/4" x 1/4"	----

FEMALE ADAPTER (GASKET)

FEMALE COMPRESSION X COM-

PART #	SIZE	
18500LF	3/8" x 1/4"	----
18501LF	1/2" x 3/8"	----

FEMALE ADAPTER (GASKET)

FEMALE FLARE X COMPRESSION

PART #	SIZE	
18510LF	9/16-24 x 3/8	----

FEMALE ADAPTER (GASKET)

LF124GH
LF125GH

FE GARDEN HOSE X COMPRES-

PART #	SIZE	
30050LF	3/4" x 1/4"	----
30051LF	3/4" x 3/8"	----

SWIVEL ELBOW

LF69GHS-162

COMP X FE GARDEN HOSE

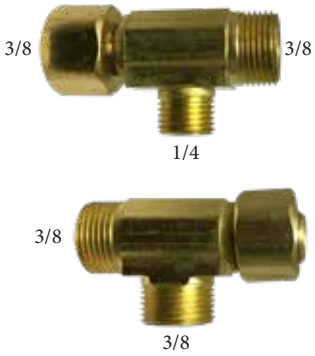
PART #	SIZE	
30055LF	3/8" x 3/4"	----

• NO NUT & SLEEVE

LEAD FREE ADD-A-TEE

COMP X COMP X SWIVEL FE COMPRESSION

- For adding a water line
- Ice makers, Coffee makers and instant hot water systems



• NSF Approved

PART #	MALE & FEM. COMPRESSION X MALE COMP	
935044LF	3/8 x 1/4	----
935045LF	3/8 x 3/8	----

MY MISSION IN LIFE IS NOT MERELY TO SURVIVE, BUT TO THRIVE; AND TO DO SO WITH SOME PASSION, SOME COMPASSION, SOME HUMOR, AND SOME STYLE.

- MAYA ANGELOU

N/P COMPRESSION/ ICE MAKER KITS/ LEAD FREE BRASS FITTINGS

LEAD FREE BRASS FITTINGS

LEAD FREE

NICKEL PLATED COMPRESSION FITTINGS

NUT

PART #	SIZE	
18054LF	1/4"	----
18055LF	3/8"	----
18056LF	1/2"	----
18057LF	5/8"	----

UNION

PART #	SIZE	
31066LF	3/8"	----
31068LF	1/2"	----

REDUCING UNION

PART #	SIZE	
31079LF	3/8" x 1/4"	----
31081LF	1/2" x 3/8"	----
31082LF	5/8" x 3/8"	----
31083LF	5/8" x 1/2"	----

TEE

PART #	SIZE	
31105LF	3/8"	----
31106LF	1/2"	----

ELBOW

PART #	SIZE	
31126LF	3/8"	
31127LF	1/2"	

REDUCING ELBOW

PART #	SIZE	
31137LF	5/8" x 3/8"	

FEMALE COUPLING

PART #	SIZE	
31154LF	3/8" x 3/8"	----
31155LF	3/8" x 1/2"	----
31158LF	1/2" x 3/8"	----
31159LF	1/2" x 1/2"	----

COMP X SWEAT ADAPTER

PART #	SIZE	
31171LF	3/8" x 5/8" O.D (1/2 Nom. Sweat)	----

CONNECTOR

PART #	SIZE	
31188LF	3/8" x 1/4"	----
31189LF	3/8" x 3/8"	----
31190LF	3/8" x 1/2"	----
31194LF	1/2" x 3/8"	----
31195LF	1/2" x 1/2"	----
31198LF	5/8" x 1/2"	----

ELBOW

PART #	SIZE	
31233LF	3/8" x 1/4"	----
31234LF	3/8" x 3/8"	----
31235LF	3/8" x 1/2"	----
31237LF	1/2" x 3/8"	----
31238LF	1/2" x 1/2"	----

ELBOW

PART #	SIZE	
31260LF	3/8" x 1/2"	----

Ice Maker Kits

ICE MAKER WATER SUPPLY

- Lead free fittings
- Bag with Header Card
- 25' 1/4" O.D. Polyethylene Tubing - 979215
- Self Piercing Saddle Valve
- 1/4" O.D. Compression x 1/8" MIP Elbow & Adapter
- 1/4" O.D. Compression Union
- 1/4" Inserts & Sleeves

PART #	DESCRIPTION	
43265LF	Kit	----
979215	1/4" OD, 25' Tube	----

ICE-MAKER WATER SUPPLY

- Economy
- 25' Polyethylene Tubing
- Self Piercing Saddle Valve
- 1/4" Compression Union
- 1/4" Inserts & Sleeves

PART #	
43266LF	----

LEAD FREE NEEDLE VALVES

LEAD FREE BRASS FITTINGS

COMP X COMP

PART #	COMP X COMP	
46021LF	1/4″	----
46022LF	5/16"	----
46023LF	3/8″	----

COMP X MALE PIPE

PART #	COMP X MALE PIPE	
46002LF	1/4" x 1/8"	----
46003LF	1/4″ x 1/4″	----
46005LF	3/8″ x 1/4″	----

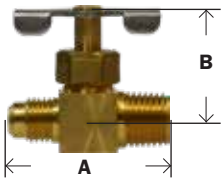
COMP X MALE PIPE-ANGLE

PART #	COMP X MALE PIPE	
46011LF	1/4″ x 1/8″	----
46012LF	1/4″ x 1/4″	----
46013LF	5/16" x 1/8"	----
46015LF	3/8" x 1/8"	----
46016LF	3/8" x 1/4"	----

FLARE X FLARE

PART #	COMP X COMP	
46045LF	1/4"	----
46046LF	3/8"	----

FLARE X MALE PIPE



PART #	MALE FLARE X MALE PIPE	
46029LF	1/4″ x 1/4″	----

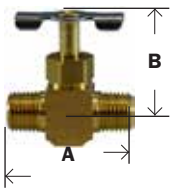
FEMALE PIPE X FEMALE PIPE

PART #	FEMALE X FEMALE	
46055LF	1/8" x 1/8"	----
46056LF	1/4″ x 1/4″	----

MALE X FEMALE PIPE

PART #	FEMALE X MALE	
46060LF	1/8" x 1/8"	----
46061LF	1/4″ x 1/4″	----

MALE PIPE TO MALE PIPE



PART #	MALE PIPE X MALE PIPE	
46051LF	1/4″	----

VALVE WITH TEE

PART #	SIZE	
46175LF	1/4" x 3/8"	----
46177LF	1/4" x 5/8"	----
46174LF	3/8" x 3/8"	----

VALVE WITH SADDLE FITS

up to 3/4" pipe

PART #	SIZE	
46091LF	1/4"	----
46092LF	5/16"	----
46093LF	3/8"	----

BRASS SADDLE

PART #	SIZE	
46099LF	1/8"	----

SELF PIERCING SADDLE VALVES

- 1/4 Tube O.D.

SELF PIERCING NEEDLE VALVE KIT #M-104-VSP

- INDIVIDUALLY BAGGED WITH NEEDLE VALVE
- SADDLE CLAMP
- 2 NUTS
- 2 BOLTS & WASHERS

Has brass sleeve for copper tube installation & delrin

sleeve & brass insert for plastic tube installation.

PART #		
46090ALF	Solid Pin	----
46090HLF	Hollow Pin	----

SUPPLY STOPS/ SS SUPPLY CONNECTORS

LEAD FREE BRASS FITTINGS

LEAD FREE

SUPPLY STOPS - 1/4 TURN

- 100% Pressure Leak Tested
- High Performance Teflon Seats
- Individually Boxed
- Conventional Oval Handle Design
- Meets or Exceeds ASME A112.18.1

LEAD FREE

AB1953/S.152
COMPLIANT

Meets S.3874/ Public Law No. 111-380
Reduction of Lead in Drinking Water Act

CONNECTORS

- Marine Grade Stainless Steel Braid
- Precision 12 Point Crimp
- Heavy duty Brass Inserts
- Chloramine/ Chlorine Resistant Inner Liner

ANGLE STOPS

PART #	X 3/8 COMPRESSION	
746436	LF 3/8 Female Iron Pipe	----
746437	LF 1/2 Nominal Pex x 1/4 Comp.	----
746438	LF 1/2 Nominal Pex	----
746446	LF 1/2 Pemale Iron Pipe	----
746456	LF 5/8 Compression	----
746457	LF 5/8 Compression Contractor Pack bagged less 3/8" Nut & Ferrule	----
746466	LF 1/2 Nominal Sweat	----

STRAIGHT STOPS

PART #	X 3/8 COMPRESSION	
746506	LF 3/8 Compression	----
746536	LF 3/8 Female Iron Pipe	----
746537	LF 1/2 Nominal Pex x 1/4 Comp.	----
746538	LF 1/2 Nominal Pex	----
746546	LF 1/2 Female Iron Pipe	----
746556	LF 5/8 Compression	----
746566	LF 1/2 Nominal Sweat	----
746567	LF 1/2 Socket CPVC	----

3 WAY STOPS

PART #	DESCRIPTION	
746439	LF 5/8 Compression x 3/8 Compression x 1/4 Compression	----
746440	LF 5/8 Compression x 3/8 Compression x 3/8 Compression	----

LAVATORY

3/8 COMPRESSION X 3/8 COMPRESSION

PART #	LENGTH	
922012	12"	----
922016	16"	----
922020	20"	----
922030	30"	----
922036	36"	----

3/8 COMPRESSION X 1/2 FEMALE IRON PIPE

922112	12"	----
922116	16"	----
922120	20"	----
922130	30"	----
922136	36"	----

1/2 FEMALE IRON PIPE X 1/2 FEMALE IRON PIPE

922412	12"	----
922416	16"	----
922420	20"	----
922430	30"	----
922436	36"	----

BALLCOCK

3/8 COMPRESSION X 7/8 BALLCOCK

923209	9"	----
923212	12"	----
923216	16"	----
923220	20"	----

1/2 FEMALE IRON PIPE X 7/8 BALLCOCK

923509	9"	----
923512	16"	----
923520	20"	----

SS SUPPLY CONNECTORS

LEAD FREE BRASS FITTINGS

- Marine Grade Stainless Steel Braid
- Precision 12 Point Crimp
- Heavy duty Brass Inserts
- Chloramine/ Chlorine Resistant Inner Liner

LEAD FREE
AB1953/S.152
Compliant

Meets S.3874/ Public Law No. 111-380 Reduction of Lead in Drinking Water Act

- 100% Pressure Leak Tested
- High Performance Teflon Seats
- Individually Boxed
- Conventional Oval Handle Design
- Meets or Exceeds ASME A112.18.1

ICE MAKER

1/4 COMPRESSION X 1/4 COMPRESSION

PART #	LENGTH	
923112	12"	----
923124	24"	----
923136	36"	
923148	48"	
923161	60"	
923196	96"	----

DISHWASHER

3/8 COMPRESSION X 3/8 COMPRESSION

922009	9"	
922012	12"	
922024	24"	
922030	30"	
922036	36"	
922048	48"	----
922060	60"	----
922072	72"	----
922096	96"	----

3/8 COMPRESSION X 3/8 MALE IRON PIPE ELBOW

PART #	L	
923648	48"	----
923660	60"	----
923672	72"	----
923684	84"	----

3/8 COMPRESSION X 3/4 FEMALE GARDEN HOSE ELBOW

924248	48"	----
924260	60"	----
924272	72"	----
924284	84"	----
924297	120"	----

WASHING MACHINE

3/4 FEMALE GARDEN HOSE X 3/4 FEMALE GARDEN HOSE

923936	36"	----
923948	48"	----
923960	60"	----
923972	72"	----

WATER HEATER

3/8 COMPRESSION X 3/4 FEMALE IRON PIPE

PART #	L	
922712	12"	----
922718	18"	----
922724	24"	----

7/8 COMPRESSION X 3/4 FEMALE IRON PIPE

922812	12"	----
922818	18"	----
922824	24"	----

3/4 MALE IRON PIPE X 3/4 FEMALE IRON PIPE

922912	12"	----
922918	18"	----
922924	24"	----

3/4 FEMALE IRON PIPE X 3/4 FEMALE IRON PIPE

924115	12"	----
924118	18"	----
924124	24"	----

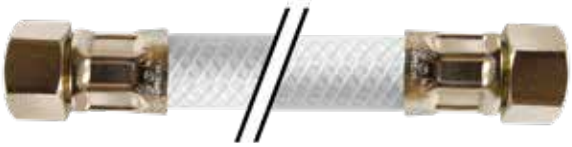
PVC SUPPLY CONNECTORS
LEAD FREE BRASS FITTINGS

- Reinforced Flexible PVC
- Heavy Duty Brass Inserts
- Precision 12 Point Crimp

LEAD FREE
AB1953/S.152
Compliant

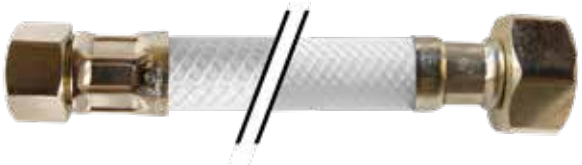
Meets S.3874/ Public Law No. 111-380 Reduction of Lead in Drinking Water Act

LAVATORY



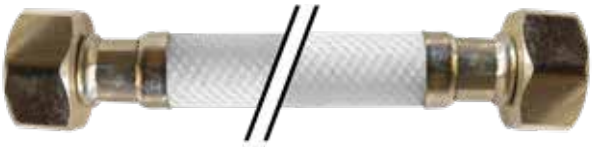
3/8 COMPRESSION X 3/8 COMPRESSION

PART #	LENGTH	
920012	12"	
920016	16"	
920020	20"	
920030	30"	
920036	36"	



3/8 COMPRESSION X 1/2 FEMALE IRON PIPE

920112	12"	
920116	16"	
920120	20"	
920130	30"	
920136	36"	



1/2 FEMALE IRON PIPE X 1/2 FEMALE IRON PIPE

920412	12"	
920416	16"	
920420	20"	
920430	30"	
920436	36"	
920448	48"	

BALLCOCK

3/8 COMPRESSION X 7/8 BALLCOCK

921209	9"	
921212	12"	
921216	16"	
921220	20"	

1/2 FEMALE IRON PIPE X 7/8 BALLCOCK

921509	9"	
921512	12"	
921516	16"	
921520	20"	

YOUR WORK IS GOING TO FILL A LARGE PART OF YOUR LIFE, AND THE ONLY WAY TO BE TRULY SATISFIED IS TO DO WHAT YOU BELIEVE IS GREAT WORK. AND THE ONLY WAY TO DO GREAT WORK IS TO LOVE WHAT YOU DO. IF YOU HAVEN'T FOUND IT YET, KEEP LOOKING. DON'T SETTLE. AS WITH ALL MATTERS OF THE HEART, YOU'LL KNOW WHEN YOU FIND IT.

- STEVE JOBS

TRANSITION FITTINGS

LEAD FREE BRASS FITTINGS

BRASS CPVC FEMALE ADAPTER

PART#	SIZE	
35403LF	1/2"	
35404LF	3/4"	
35405LF	1"	
35406LF	1-1/4"	
35407LF	1-1/2"	
35408LF	2	

STAINLESS STEEL CPVC MALE ADAPTER

PART#	SIZE	
35413SS	1/2"	
35414SS	3/4"	
35415SS	1"	
35416SS	1-1/4"	
35417SS	1-1/2"	
35418SS	2	

BRASS CPVC MALE ADAPTER

PART#	SIZE	
35413LF	1/2"	
35414LF	3/4"	
35415LF	1"	
35416LF	1-1/4"	
35417LF	1-1/2"	
35418LF	2	

STAINLESS STEEL CPVC FEMALE ADAPTER

PART#	SIZE	
35403SS	1/2"	
35404SS	3/4"	
35405SS	1"	
35406SS	1-1/4"	
35407SS	1-1/2"	
35408SS	2	

LEAD FREE CPVC DROP EAR ELBOW

PART#	SIZE	
35420LF	1/2"	

STAINLESS STEEL CPVC DROP EAR ELBOW

PART#	SIZE	
35420SS	1/2"	

FITTING ASSORTMENTS AND DISPLAYS

MAKE YOUR OWN ASSORTMENTS WITH OUR DIFFERENT SIZE OF BINS

Fittings Assortments and Displays are available for most product categories. These customer-friendly modular bin displays keep products organized for easier product maintenance. Header cards are also available to assist in proper product/sizing selection. Lift product sales and satisfy customers with these best in industry merchandisers.

- Bin labels color coded by category
- Easy to shop bins keep products organized
- Space saving slider racks available

For more information, just ask. Bins can be ordered with our without fittings. The Merchandising Kit is the Bins, Labels and headers provided, not the gondola.

FITTINGS ONLY	SIZE	MERCHANDISING KIT	COMPLETE	
	FLARE/ COMPRESSION			
97551	Expanded Flare LF	97553	97550	----
97561	Expanded Comp LF	97563	97560	----
97511	Lead Free Compression/ Flare-Basic - LF	97513	97510	----
	NIPPLES AND LF CAST FITTINGS			
97436	Stainless Steel Nipples And Fittings	97438	97435	----
97446	Stainless Steel Fittings	97448	97445	----
90636	LF Brass Pipe Nipples - Asst.	90638	90635	----
97646	LF Bronze Fittings - Asst.	97648	97645	
	PIPE AND BARB			
97571	Lead Free Pipe And Hose Barb - LF	97573	97570	----
90691	Nylon Fittings	90693	90690	----
97811	Pneumatic Tools Fittings Assortment	97823	97825	----
	MARINE			
97817	Marine - Pipe & Barb	97863	97865	----
97818	Marine - Brass Nipples & Bronze Fittings	97873	97875	----
97819	Marine - Nylon	97883	97885	----
97820	Marine - The Big 'Un	97893	97895	
	BEVERAGE			
97821	LF Brass & Copper Tubing Beverage Assortment	97903	97905	----
97822	PTC NSF Fittings & Plastic Tubing Beverage Assortment	97913	97915	----
97824	SS Beverage Fittings and Clearbraid Beverage Assortment	97923	97925	----
	TRUCK AND AUTO			
97810	Truck & Auto Assortments	97803	97805	----
97812	DOT - Nylon Air Brake Assortment	97833	97835	----
97814	DOT - Brass Push-To-Connect Assortment	97843	97845	----
97816	DOT - Composite Push-To-Connect Assortment	97853	97855	

GONDOLA

Gondolas may be purchased from your local Lozier distributor.

SLIDER KIT

PART#	SIZE	
90507	4x4 - No Bins just slider frame	----

LABELS

Labels are provided when you order an assortment or you can print out your own labels on our website when you create your own assortment.

Add - **LAB** to part# for the assortment on the previous page to order just the labels.

See part # for your assortment or print out your own.

BINS

Bins are offered in 3 sizes - 4,5 and 6 across. These bins may be attached to a gondola or peg board wall to make a display. They are made of clear, strong plastic.

6 ACROSS

5 ACROSS

4 ACROSS

PART#	SIZE	
9050004	4 BIN	----
9050005	5 BIN	----
9050006	6 BIN	----

PACKAGING

- Tagged
- Bagged

Bagged

Tagged

HEADER CARDS/ SIZE GUIDE

PART#	DESCRIPTION	
90500	HEADER CARD ONLY	----
905001	HEADER CARD FTTGS	----

PART#	DESCRIPTION	
905021	HEADER CARD ONLY	----
905031	HEADER CARD FTTGS	----

PART#	DESCRIPTION	
905022	HEADER CARD ONLY	----
905032	HEADER CARD FTTGS	----

PART#	DESCRIPTION	
905023	HEADER CARD ONLY	----
905033	HEADER CARD FTTGS	----

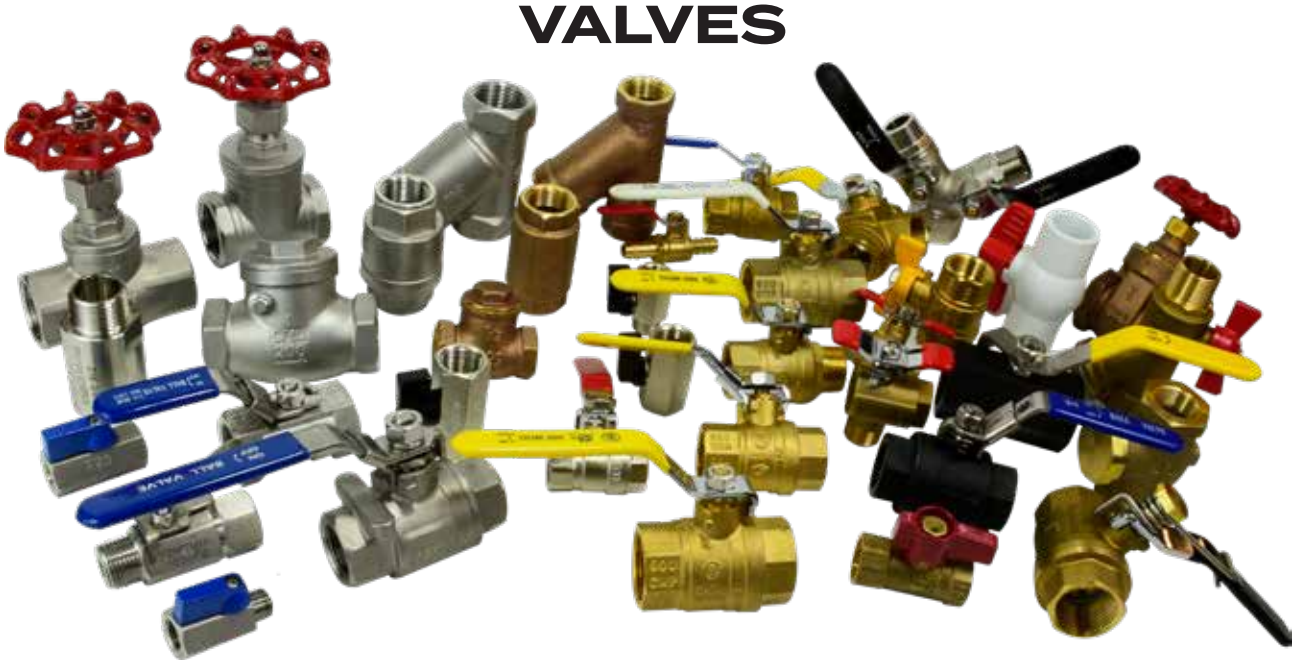
PART#	DESCRIPTION	
905025	HEADER CARD ONLY	----
905035	HEADER CARD FTTGS	----

PART#	DESCRIPTION	
905024	HEADER CARD ONLY	----
905034	HEADER CARD FTTGS	----

PART#	DESCRIPTION	
905026	HEADER CARD ONLY	----
905036	HEADER CARD FTTGS	----

HEADER CARD SIZES AND COLORS MAY VARY

VALVES



VALVES 179-225

LEAD FREE BALL VALVES 180-182
LEAD FREE VALVES 183
Press Valve 184
Pex Valves 185
Full Port Ball 186
Locking Handle 187
Butterfly Handle 187
N/P Ball Valve 188
N/P Ball w/SS Trim 189
Italian Ball Valve 190
M X F Ball Valve 191-192
Tee Handle M X F Ball 193
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Gas Valves 197
Mini Ball Valves 198-201
3-Way Valves 202
Strainer Ball Valve 203
Vacuum Breaker/Hose Bibb 203
Bent Nose Garden Valve 203
Gate Valves 204
Quick Opening Gate 205
Y Strainer 206
Check Valves 207-209

STAINLESS STEEL VALVES 210-219

2000# Full Port 210
Standard Port 211
1,000 PSI Full Port 212
SS Mini Ball Valve 213-214
Check Valves 215-218
Y-strainer, Globe,Gate 219

Carbon Steel valves 220-223

2,000# Standard Port 220
2,000 # FP 2-Piece 221
Hi Pressure 2-Way Valves 222
Hi Pressure 3-Way Balves 222
Check valves-5,000# 223

PVC Valves 224-225

LEAD FREE BALL VALVE

5 PSIG C US

• BRASS • 600PSI • STAINLESS STEEL BALL • FULL PORT

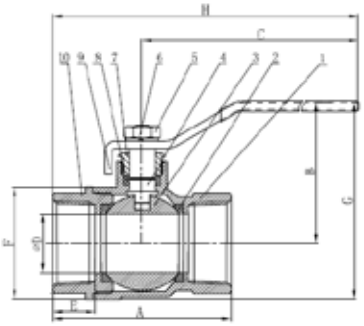
LEAD FREE

IAMPO IGC 157 - 2004b

Lead Free Brass Ball Valve NPT,Female*Female
Lead Free and dezincification resistant (DZR) material
IAPMO listed to NSF/ANSI-61, NSF/ANSI-372 ,IGC-157
CSA listed to NSF/ANSI-61, NSF/ANSI-372 ,IGC-157
Vacuum Services 29.92 inches Hg
600 psi (WOG) 150 psi (WSP) Service
Thread conform ANSI B1.20.1
Temperature Range : -40° F to 365° F
Construction:Forging Brass Body
PTFE Ball Seats
Blow Out Proof Brass Stem
Stainless Steel Ball
Steel Handle w/Vinyl Grip
Made in China

FIP X FIP LEAD FREE BALL VALVE

PART #	SIZE	DN	A	B	C	E	F	G	H	WEIGHT	BOX/CASE	
941151LF	1/4"	0.394	1.73	1.69	3.35	0.453	0.945	2.154	4.331	0.32	10/120	----
941152LF	3/8"	0.394	1.73	1.69	3.35	0.473	0.945	2.154	4.331	0.32	10/120	----
941153LF	1/2"	0.524	1.89	1.73	3.35	0.472	1.083	2.276	4.291	0.36	10/100	----
941154LF	3/4"	0.748	2.28	1.89	3.35	0.563	1.378	2.579	4.488	0.57	10/80	----
941155LF	1"	0.984	2.80	2.14	4.29	0.650	1.772	3.031	5.689	0.94	8/48	----
941156LF	1-1/4"	1.240	3.15	2.32	4.29	0.669	2.165	3.398	5.866	1.30	4/36	----
941157LF	1-1/2"	1.476	3.44	2.66	5.53	0.701	2.50	3.909	7.343	1.92	2/24	----
941158LF	2"	1.949	4.06	3.01	5.53	0.708	3.244	4.638	7.638	3.12	2/12	----
941159LF	2-1/2"	2.52	5.53	4.25	7.76					7.42	2/12	----
941160LF	3"	2.89	6.14	4.58	8.19					11.01	1/6	----
941161LF	4"	3.84	7.79	5.49	9.25					12.10	1/2	----



No	Item	Qty	Material
1	Body	1	Lead Free Brass
2	Seat	2	PTFE
3	Ball	1	Stainless Steel
4	Stem	1	Brass
5	Handle Nut	1	Plated Steel
6	Lock Washer	1	Plated Steel
7	Packing Nut	1	Brass
8	Packing	1	PTFE
9	Handle	1	Plated Steel
10	Cap	1	Lead Free Brass

SWT X SWT LEAD FREE BALL VALVE

PART #	SIZE	DN	A	B	C	E	G	H	WEIGHT	WTG	BOX/CASE	
941163LF	1/2"	0.524	1.945	1.73	3.35	0.504	1.083	2.276	4.319	0.38	10/100	----
941164LF	3/4"	0.748	2.654	1.89	3.35	0.748	1.378	2.579	4.665	0.65	10/80	----
941165LF	1"	0.984	3.315	2.14	4.29	0.909	1.772	3.031	5.949	0.93	8/48	----
941166LF	1-1/4"	1.240	3.741	2.32	4.29	0.968	2.165	3.398	6.165	1.35	4/36	----
941167LF	1-1/2"	1.476	4.252	2.66	5.63	1.091	2.50	3.909	7.756	1.88	2/24	----
941168LF	2"	1.949	5.38	3.01	5.63	1.343	3.244	4.638	8.268	3.62	2/12	----

1/2" - 2" Sizes Gas Approved

LEAD FREE BALL VALVE

C US UL842, UL258, UL125,FM

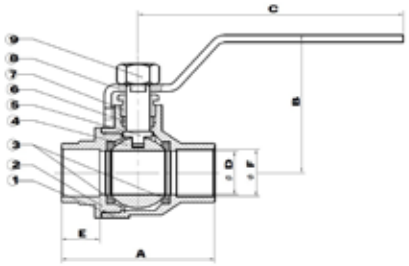
• BRASS • 600PSI • FULL PORT W/APPROVALS

CSA, UL, FM(1/4"-2"), cUPC, NSF/ ANSI 61 & 372

LEAD FREE

FEATURES
- Leadfree Brass Ball valve NPT, Female * Female
- Lead free and dezincification resistant (DZR) material
- 1/4"-1" Lead Free Brass Ball
- Size 1-1/4" thru 4" with Stainless steel ball
- IAMPO listed to cUPC, NSF/ ANSI 61 & 372, IGC 157
- CSA - 1/4" thru 2": ANSI Z21.15/ CSA 9.1 for 1/2 psig valves ASME B16.44, CGA CR91-002 for 2 & 5 psig valves; CAN/ CGA-3.16, ASME B16.33 (1/2"-2") for 125 psig valves
- UL 125, UL 1477, UL 842 - for size 1/4" thru 4", 250 psig
- UL 258 - for size 1/4" thru 2", 175 psig
- FM - for size 1/4" thru 2"
- ISO 9002 Manufacture
- Suitable for full range of liquids and gases
- Minimal pressure drop due to large full size ports
- Bottom loaded, pressure retaining stem
- Pressure rated for 1/4"-2" at 600psi (42 bars) and 2-1/2"-4" at 400 psi WOG (non-shock) and 150 WSP (10.34 bars) saturated steam. Virgin PTFE stem packing seal, thrust washer and seats
- White vinyl insulator on heavy duty plated carbon steel handles
- Fast 1/4 turn open or close operation
- Low operating torque
- **Adjustable stem packing gland**
- Maximum operating temperature: 302^{0}F (150^0 C)
- Minimum operating temperature: -22^{0}F (-30^{0}C)
- Each valve individually tested
- Forged Brass - for more strength
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem

POS	Components	Materials
1	Body	Lead Free Brass
2	End Cap	Lead Free Brass
3	Ball Seat	PTFE
4	Ball	1/4-1:Lead Free Brass 1 1/4-4:SS316 Hollowball
5	Stem	Brass
6	Stem Padding	PTFE
7	Padding Nut	Brass
8	Lever Handle	Nickel plating steel
9	Stem Nut	Brass plating steel
10	Seal	PTFE



PART#	SIZE	DIMENSIONS A	B	C	D	E	F	G	H	WEIGHT	BOX/ CASE	
940171LF	1/4"	1.756	1.732	3.543	0.394	0.457	1.012	2.238	4.421	0.34	70/140	----
940172LF	3/8"	1.756	1.732	3.543	0.394	0.457	1.012	2.238	4.421	0.34	70/140	----
940173LF	1/2"	2.047	2.040	3.543	0.583	0.520	1.240	2.559	4.567	0.45	50/100	----
940174LF	3/4"	2.362	2.260	3.780	0.748	0.563	1.492	2.854	4.961	0.69	30/60	----
940175LF	1"	2.756	2.579	4.528	0.945	0.630	1.791	3.476	5.906	1.11	20/40	----
940176LF	1-1/4"	3.307	3.050	4.528	1.260	0.709	2.343	4.134	6.181	1.85	12/24	----
940177LF	1-1/2"	3.661	3.366	5.420	1.575	0.717	2.835	4.783	7.343	2.60	9/18	----
940178LF	2"	4.181	3.701	5.42	1.969	0.748	3.425	5.413	7.602	3.62	6/12	----
940179LF	2-1/2"	4.181	4.650	8.870	2.520	1.024	4.331	6.969	11.350	7.93	3/6	----
940180LF	3"	6.039	4.970	8.870	2.913	1.102	4.921	7.579	11.681	10.40	1/4	----
940181LF	4"	7.386	6.130	10.85	3.898	1.220	6.430	9.055	13.299	20.99	1/2	----

SWT X SWT LEAD FREE BALL VALVE

FM, cUPC, NSF/ ANSI 61 & 372

PART #	SWT	A	B	C	D	E	F	WEIGHT	BOX/CASE	
943612LF	1/2"	2.047	1.839	3.543	0.583	0.512	0.630	0.45	50/100	----
943613LF	3/4"	2.748	2.14	3.780	0.748	0.748	0.878	0.68	30/60	----
943614LF	1"	3.228	2.449	4.528	0.945	0.906	1.130	1.08	20/40	----
943615LF	1-1/4"	3.819	3.04	4.36	1.260	0.972	1.378	1.80	12/24	----
943616LF	1-1/2"	4.425	3.169	5.39	1.575	1.088	1.630	2.51	9/18	----
943617LF	2"	5.377	3.488	6.307	1.989	1.346	2.130	3.57	6/12	----

ITALIAN LEAD FREE BRASS BALL VALVE

5 PSIG
C US
CSA AGA 3.88 5 PSIG

UL842, UL258, UL125,FM

IAMPO IGC 157 - 2004b

ISO 9002 Manufacturer

FEATURES

600 PSI non-shock cold water, gas, oil - 150 PSI saturated steam

- **SOLID CHROME PLATED BRASS BALL**
- Suitable for full range of liquids and gases
- Minimal pressure drop due to large full size ports
- Bottom loaded, pressure retaining stem
- Pressure rated at 600psi (42 bars) WOG (non-shock) and 150 WSP (10.34 bars) saturated steam. Virgin TFE stem packing seal, thrust washer and seats.
- Blue vinyl insulator on heavy duty plated carbon steel handles.
- Fast 1/4 turn open or close operation
- Low operating torque
- Flow can go both directions
- Adjustable stem packing gland
- Maximum operating temerature: 248^{0}F (120^0 C) at 600 PSI
- Minimum operating temperature: -20^{0}F (-40^{0}C)
- Each valve individually tested
- Forged Brass - for more strength
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem
- Deeper threads - for better connections

MADE IN ITALY

FIP X FIP

ANSI/INSF 61-8
- Generic Handles

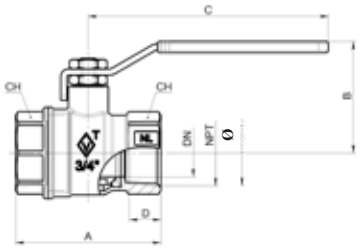
SWT X SWT

FIP X FIP LEAD FREE FORGED BRASS BALL VALVE

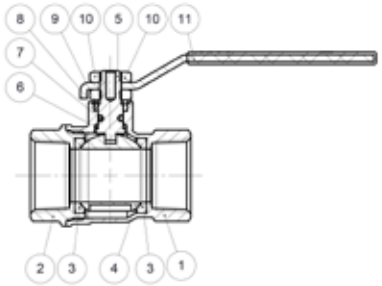
PART #	NPT	DN	A	B	C	D	CH	WEIGHT (LBS)	BOX/CASE	
943233LF	1/2"	0.57	2.09	1.57	3.35	0.46	0.98	0.39	20/80	----
943234LF	3/4"	0.75	2.28	1.77	3.80	0.49	1.22	0.56	14/56	----
943235LF	1"	0.94	3.04	2.03	3.80	0.59	1.50	0.89	6/24	----
943236LF	1-1/4"	1.24	3.23	2.32	4.72	0.62	1.85	1.44	4/16	----
943237LF	1-1/2"	1.49	3.70	2.60	4.72	0.64	2.13	2.19	2/8	----

SWT X SWT LEAD FREE FORGED BRASS BALL VALVE

PART #	SWT	Ø	DN	A	B	C	D	CH	WEIGHT (LBS)	BOX/CASE	
940212LF	1/2"	0.63	0.57	2.40	1.57	3.35	0.42	0.79	0.35	20/80	----
940213LF	3/4"	0.866	0.75	3.26	1.77	3.80	0.61	1.06	0.55	10/40	----
940214LF	1"	1.102	0.94	3.68	2.03	3.80	0.73	1.34	0.87	6/24	----
940215LF	1-1/4"	1.377	1.24	4.23	2.32	4.72	0.91	1.61	1.41	6/24	----
940216LF	1-1/2"	1.61	1.49	4.96	2.60	4.72	1.06	1.89	2.08	2/8	----
940217LF	2"	2.125	1.96	5.86	3.27	6.38	1.26	2.40	3.62	1/4	----



POS	Components	Materials
1	Body	CW510L
2	End Connection	CW510L
3	Ball Seal	PTFE
4	Seal	CW510L
5	Stem	CW614N
6	Lower Stem	PTFE
7	O-Ring	NBR70sh
8	Upper Seal	PTFE
9	Brass Ring	CW614N
10	Nut	Steel
11	Handle	Steel P10



LEAD FREE GATE/ CHECK/ Y VALVES

VALVES

BRASS GATE VALVE IPS

▪200 WOG (Cold water, oil, gas)
▪125 WSP (Saturated Steam)

▪ Brass Forged body/bonList- stronger than sand castings.
▪ Superior quality and finish.
▪ Each valve individually tested.
▪ Threaded ends to ANSI B1.20.1, Solder ends to ANSI B16.18
▪ Non rising stem.
▪ Cast iron handle.
▪ NSF Approved

BRASS GATE VALVE IPS

PART#	SIZE	
940130LF	1/4	----
940131LF	3/8	----
940132LF	1/2	----
940133LF	3/4	----
940134LF	1	----
940135LF	1-1/4	----
940136LF	1-1/2	----
940137LF	2	----

BRASS GATE VALVE C X C

PART#	SIZE	
940142LF	1/2"	----
940143LF	3/4"	----
940144LF	1"	----
940145LF	1-1/4"	----
940146LF	1-1/2"	----
940147LF	2"	----

BRASS CHECK VALVE

▪ NSF Approved
▪ ANSI 61-4

NO	Part	Material
1	Cap	C37700
2	Gasket	NBR
3	Spring	Stainless Steel
4	Positioning Seat	BRASS
5	Screw	BRASS
6	Body	C37700

LEAD-FREE

PART #	SIZE	
944430LF	1/2	----
944431LF	3/4	----
944432LF	1	----
944433LF	1-1/4	----
944434LF	1-1/2	----
944435LF	2	----

CAST BRASS SWING CHECK VALVE IPS SCREWED ENDS

▪ Working pressure non-shock: 200 psi W.O.G. (cold water, oil, gas) 125 psi WSP (saturated steam)
▪ Swing type disc.
▪ Screwed Cap.
▪ Hard Seat.
▪ 90^0 Straight Pattern.
▪ Used to prevent reverse flow in commercial and industrial applications.
▪ Threaded ends to ANSI B1.20.1. Solder ends ANSI 61-8
▪ Integral seat.
▪ NSF Approved

LEAD FREE

PART #	SIZE	
940352LF	1/2"	----
940353LF	3/4"	----
940354LF	1"	----
940355LF	1-1/4"	----
940356LF	1-1/2"	----
940357LF	2"	----

C X C SWING CHECK VALVE

PART #	SIZE	
940362LF	1/2	----
940363LF	3/4	----
940364LF	1	----
940365LF	1-1/4	----
940366LF	1-1/2	----
940367LF	2	----

CLASS 150 BRASS Y-PATTERN STRAINER

LEAD-FREE

PART#	SIZE	
940523LF	1/2"	----

PRESS BALL VALVE
VALVES

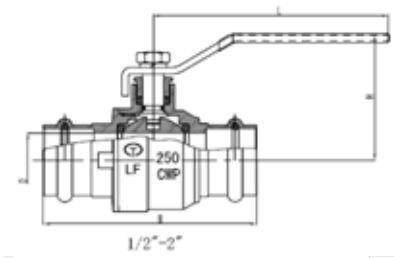
LEAD FREE COPPER PRESS BALL VALVE

Our Series "940 LF" 2-Piece, Full Port, Lead Free, Copper, Press Ball Valves are designed for use in flameless, copper press piping systems. Our Copper Press Ball Valves feature a lead free brass body, adjustable packing gland and blowout proof stem with stem a single O-ring seal. Our press ball valves come with integral ASTM-B88 compliant press end connections that can be used with type K, L, M, hard copper tubing 1/2 in. – 4 in. Utilizing industry standard tools.

Press Ball Valve Features

- Lead Free construction.
- Available Sizes: 1/2 in. – 4 in.
- Integral press end connections designed for hard and soft copper tubing
- ISO-9001
- 250 WOG - 250 CWP (2-1/2" - 4")
- Full Port Stainless Steel ball
- One O-Ring design
- Blow Out Proof Stem
- UPC & NSF-61 Compliant
- AB1953 & NSF-372 Compliant▪

Our Copper Press Ball Valves are a heat-free method for joining copper tubes. Our press valve allows installers the confidence to know the joint is secure due to our leak-detection o-ring. During low pressure testing, if the joint is not pressed properly, the specialized o-ring will leak. This allows the installer to correct the press before the system is operational at higher pressures.



Part Name	Material
Body	Lead Free Brass
Seat	PTFE
Ball	Stainless Steel
Stem O-Ring	NBR
Packing Nut	Brass
Stem	Brass (1/2"-2")
	Stainless Steel(2-1/2"-4")
Lock Nut	Ferrum /Zinc Plated
Lock Washer	Ferrum /Zinc Plated
Packing	PTFE
Handle	Ferrum /Chrome Plated
Cap	Lead Free Brass
Body O-Ring	NBR
Press O-Ring	EPDM

PART	SIZE	D	L	H	W	CV	
940403LF	1/2"	0.591	3.46	1.81	3.15	18.55	----
940404LF	3/4"	0.748	4.29	2.09	3.60	29.76	----
940405LF	1"	0.984	4.29	2.25	3.92	51.55	----
940406LF	1-1/4"	1.259	5.63	2.52	4.41	84.42	----
940407LF	1 1/2"	1.574	5.63	2.74	5.35	131.93	----
940408LF	2 "	1.941	5.63	3.03	6.79	200.35	----
940409LF	2 1/2"	2.520	7.76	4.25	7.46	338.43	----
940410LF	3 "	2.874	8.19	4.58	8.17	445.44	----
940411LF	4"	3.839	9.25	5.49	9.88	783.88	----

C/E PEX & PEX BALL VALVES LEAD FREE

CUPC, AB 1953, NSF/ANSI 61, NSF/ ANSI 372 (ANNEX G) NSF-14

• 400 WOG • FORGED LEAD FREE BRASS BODY • SS BALL

UNION PEX VALVE

C/E PEX X C/E PEX

- Cold Expansion
- Conforms to ASTMF 1960

PART	SIZE	
945611LF	1/2"	----
945612LF	3/4"	----
945613LF	1"	----
945614LF	1-1/4"	----
945615LF	1 1/2"	----
945616LF	2 "	----

PEX DRAIN VALVE

C/E PEX X C/E PEX

WITH WASTE DRAIN AND DROP EAR

- Cold Expansion
- Conforms to ASTMF 1960

PART	SIZE	
945621LF	1/2"	----
945622LF	3/4"	----
945623LF	1"	----

MALE ADADPTER PEX VALVE

MALE PIPE X C/E PEX

- Cold Expansion
- Conforms to ASTMF 1960
- Thread conforms to ANSI B1.20.1

PART	SIZE	
945631LF	1/2"	----
945632LF	3/4"	----
945633LF	1"	----

- Dezincification resistant (D2B) Lead Free Brass material
- Cold expansion pex ends conform to ASTM F1960
- Blow out proof stem design

PEX X PEX

PEX ENDS CONFORM TO ASTMF-1807

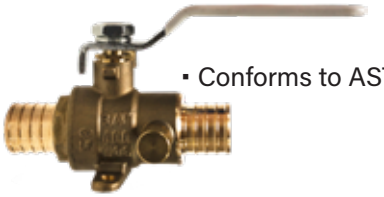
- CSA

PART	SIZE	
945601LF	1/2"	----
945602LF	3/4"	----
945603LF	1"	----
945604LF	1-1/4"	----
945605LF	1-1/2"	----
945606LF	2"	----

W/TEE HANDLE

PART	SIZE	
945640LF	3/4"	----

PEX DRAIN VALVE



- Conforms to ASTMF 1807

PART	SIZE	
945650LF	1/2"	----
945651LF	3/4"	----
945652LF	1"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FORGED BRASS BALL VALVE

• BRASS • 600WOG • FULL PORT

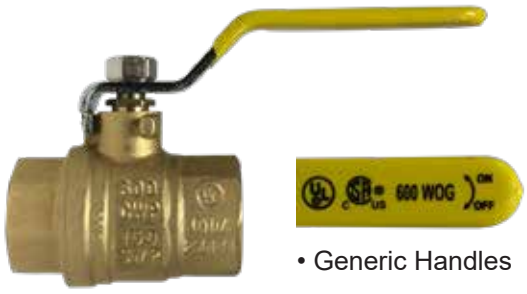
UL842, UL258, UL125,FM

ISO 9002 Manufacturer
FEATURES

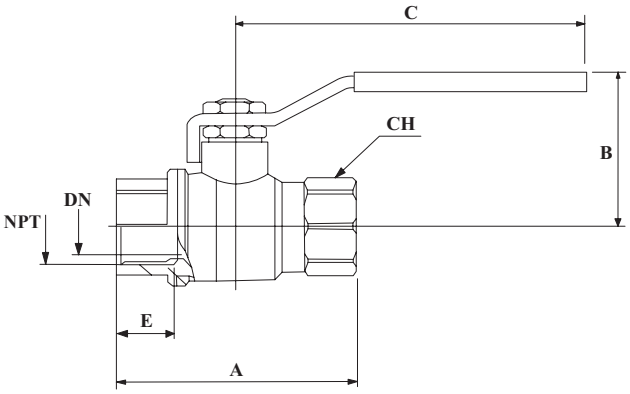
Made in China

1/4-2" 600 PSI non-shock cold water, gas, oil - 150 PSI saturated steam
2-1/2"- 4" 400 PSI non-shock cold water, gas, oil

- Suitable for full range of liquids and gases
- Minimal pressure drop due to large full size ports
- Bottom loaded, pressure retaining stem
- Pressure rated for 1/4"-2" at 600psi (42 bars) and 2-1/2"-4" at 400 psi WOG (non-shock) and 150 WSP (10.34 bars) saturated steam. Virgin PTFE stem packing seal, thrust washer and seats
- Yellow vinyl insulator on heavy duty plated carbon steel handles
- Fast 1/4 turn open or close operation
- Not Lead Free
- Good for gasoline
- Low operating torque
- Adjustable stem packing gland
- Maximum operating temperature: 302^{0}F (150^0 C)
- Minimum operating temperature: -22^{0}F (-30^{0}C)
- Each valve individually tested
- Forged Brass - for more strength
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem
- Deeper threads - for better connections



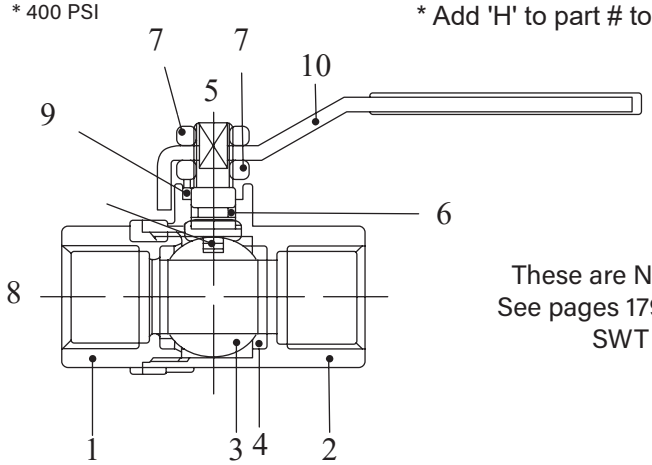
• Generic Handles



PART#	SIZE	DIMENSION INCHES						WEIGHT	BOX/CASE	
	NPT	DN	A	B	C	E	CH			
940171	1/4"	0.39	1.75	1.92	3.54	0.46	0.78	0.34	70/140	----
940172	3/8"	0.41	1.75	1.92	3.54	0.46	0.78	0.30	70/140	----
940173	1/2"	0.58	2.05	2.08	3.54	0.52	0.98	0.44	50/100	----
940174	3/4"	0.75	2.36	2.30	3.78	0.56	1.20	0.67	30/60	----
940175	1"	0.94	2.75	2.68	4.52	0.66	1.50	1.05	20/40	----
940176	1-1/4"	1.26	3.30	3.14	4.52	0.70	1.82	1.50	12/24	----
940177	1-1/2"	1.57	3.66	3.61	5.51	0.72	2.09	2.30	9/18	----
940178	2"	1.97	4.18	3.68	5.51	0.74	2.62	3.38	6/12	----
940179*	2-1/2"	2.52	5.38	4.76	8.66	1.01	3.36	7.61	3/6	----
940180*	3"	2.95	6.04	5.08	8.66	1.11	3.86	11.10	2/4	----
940181*	4"	3.89	7.38	5.86	9.00	1.22	4.89	12.12	1/2	----

* 400 PSI

* Add 'H' to part # to order handles *



These are NOT Lead Free
See pages 179 for Lead Free SWT Valves

POS	Components	Materials	N
1	Body	Forged Brass	1
2	End Connection	Forged Brass	1
3	Ball	CP Brass	1
4	Ball Seat	P.T.F.E.	2
5	Stem	Brass	1
6	Gland	Brass	1
7	Nut	Steel	1
8	Spring Inseat	Steel	1
9	Stem Seal	P.T.F.E.	1
10	Handle	Steel	1

▪ Not Lead Free AB1953 Compliant

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LOCKING HANDLE BALL VALVE

▪ BRASS ▪ 600WOG ▪ FULL PORT

See specs on previous page

• Generic Handles

PART#	SIZE	DIMENSION INCHES						WEIGHT	BOX/CASE	
	NPT	DN	A	B	C	E	CH			
940171L	1/4"	0.31	1.73	1.84	3.15	0.49	0.71	0.39	70/140	----
940172L	3/8"	0.39	1.81	1.88	3.86	0.49	0.79	0.35	70/140	----
940173L	1/2"	0.58	2.23	2.09	3.43	0.61	0.98	0.49	50/100	----
940174L	3/4"	0.75	2.48	2.24	3.62	0.62	1.20	0.78	30/60	----
940175L	1"	0.94	2.95	2.67	4.42	0.73	1.50	1.18	20/40	----
940176L	1-1/4"	1.26	3.42	3.05	4.73	0.77	1.81	1.76	12/24	----
940177L	1-1/2"	1.57	3.78	3.51	5.18	0.78	2.09	2.53	9/18	----
940178L	2"	1.97	4.18	3.84	5.24	0.75	2.60	3.53	6/12	----

BUTTERFLY HANDLE BALL VALVE

▪ BRASS ▪ 600WOG ▪ FULL PORT

See specs on previous page

PART#	SIZE						WEIGHT	BOX/CASE	
	NPT	A	B	C	D	E			
940171T	1/4"	1.75	1.488	1.831	0.315	0.457	0.342	70/140	----
940172T	3/8"	1.756	1.488	1.831	0.394	0.457	0.31	70/140	----
940173T	1/2"	2.047	1.756	2.394	0.583	0.520	0.44	50/100	----
940174T	3/4"	2.362	1.921	2.394	0.748	0.563	0.68	30/60	----

▪ Not Lead Free AB1953 Compliant

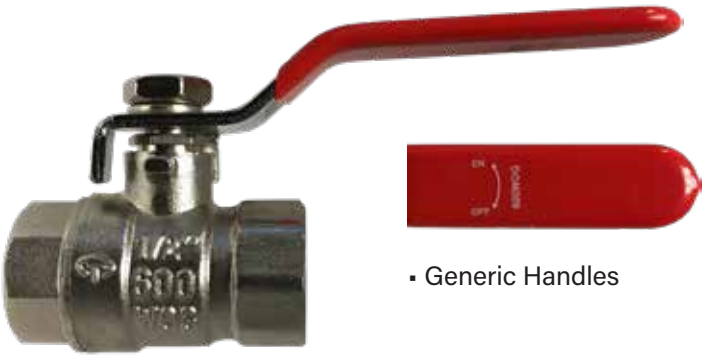
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED BALL VALVE

• BRASS • 600WOG • FULL PORT • NO APPROVALS

Vacuum service to 29 inches Hg
600 psi (WOG) 150 psi (WSP) Service
Thread conform ANSI B1.20.1
Temperature Range : -40° F to 365° F
Construction:Forging Brass Body, Nickel plated
PTFE Ball Seats
Blow Out Proof Brass Stem
Steel Handle w/Vinyl Grip
Made in China

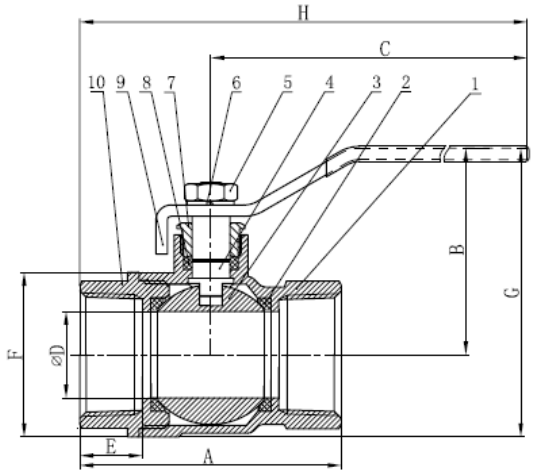
▪ Not Lead Free



▪ Generic Handles

FIP X FIP NICKEL PLATED BALL VALVE

PART #	SIZE	OD	A	B	C	E	F	G	H	WEIGHT	BOX/CASE	
941151NP	1/4"	0.394	1.73	1.69	3.35	0.453	0.945	2.154	4.331	0.32	10/120	----
941152NP	3/8"	0.394	1.73	1.69	3.35	0.473	0.945	2.154	4.331	0.32	10/120	----
941153NP	1/2"	0.524	1.89	1.73	3.35	0.472	1.083	2.276	4.291	0.36	10/100	----
941154NP	3/4"	0.748	2.28	1.89	3.35	0.563	1.378	2.579	4.488	0.57	10/80	----
941155NP	1"	0.984	2.80	2.14	4.29	0.650	1.772	3.031	5.689	0.65	8/48	----
941156NP	1-1/4"	1.240	3.15	2.32	4.29	0.669	2.165	3.398	5.866	1.75	4/36	----
941157NP	1-1/2"	1.476	3.44	2.66	5.63	0.701	2.50	3.909	7.343	2.10	2/24	----
941158NP	2"	1.949	4.06	3.01	5.63	0.708	3.244	4.638	7.638	3.35	2/12	----



No	Item	Qty	Material
1	Body	1	NP Brass
2	Seat	2	PTFE
3	Ball	1	Brass CP
4	Stem	1	Brass/ NP
5	Handle Nut	1	Plated Steel
6	Lock Washer	1	Plated Steel
7	Packing Nut	1	Brass/ NP
8	Packing	1	PTFE

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

Gas Approved

UL842, UL258, UL125,FM

CSA AGA 3.88 5 PSIG

N/P BALL VALVE W/SS TRIM

• NICKEL PLATED • SS BALL, HANDLE, NUT & STEM

• LOCKING HANDLE • W/APPROVALS

Features

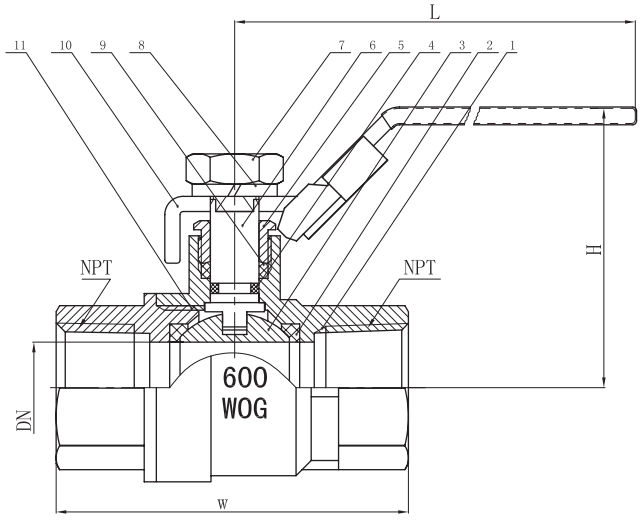
- **Vacuum service to 29 inches Hg**
- Thread Conform ANSI B1.20.1
- Forged Brass Body
- Blow Out Proof Stem Design
- Packing Nut, O-RING & Packing On The Stem Seal
- Stainless Steel Ball, Handle, Nut&Stem
- Handle With Vinyl Grip

Performance rating

- 600 PSI (WOG) 150 PSI (WSP) Service
- Temperature range: -20° F to 300° F
- Made in China
- Not lead free
- No more rusty handles

• Generic Handles

PART#	SIZE	D	L	H	W	CV	WT.(LBS.)	BOX/CASE	
941121NP	1/4	0.394	3.22	1.84	1.73	8.23	0.326	10/120	----
941122NP	3/8	0.394	3.22	1.84	1.73	8.23	0.320	10/120	----
941123NP	1/2	0.591	3.22	2.02	2.24	18.55	0.474	10/100	----
941124NP	3/4	0.748	4.04	2.40	2.52	29.76	0.785	10/80	----
941125NP	1	0.984	4.08	2.20	2.97	51.55	1.155	8/48	----
941126NP	1-1/4	1.259	5.20	3.05	3.44	84.42	1.797	4/36	----
941127NP	1 1/2	1.574	5.20	3.18	3.88	131.93	2.447	2/24	----
941128NP	2	1.941	5.20	3.48	4.33	200.35	3.477	2/12	----



Part Name	Material
Body	Brass/ Nickel Plated
Seat	PTFE
Ball	Stainless Steel
O-ring	Viton
Packing Nut	Brass/ Nickel Plated
Stem	Stainless Steel
Handle Nut	Stainless Steel
Lock Washer	Stainless Steel
Packing	PTFE
Handle	Stainless Steel
Cap	Brass/ Nickel Plated

BRONZE BALL VALVES AVAILABLE WITH UL-MARINE LISTING AND SS TRIM

WARNING: This product can expose you to chemicals, including chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ITALIAN BALL VALVE

• BRASS • 600WOG • FULL PORT

5 PSIG C US

UL FM

UL842, UL258, UL125,FM

ISO 9002 Manufacturer

FEATURES

CSA AGA 3.88 5 PSIG

IAMPO IGC 157 - 2004b

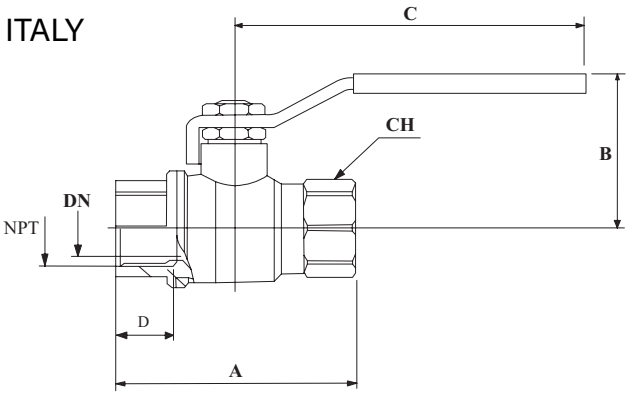
- **SOLID CHROME PLATED BRASS BALL**
- Suitable for full range of liquids and gases
- Minimal pressure drop due to large full size ports
- Bottom loaded, pressure retaining stem
- Pressure rated at 600psi (42 bars) WOG (non-shock) and 150 WSP (10.34 bars) saturated steam. Virgin TFE stem packing seal, thrust washer and seats.
- Yellow vinyl insulator on heavy duty plated carbon steel handles.
- Fast 1/4 turn open or close operation
- Low operating torque
- Flow can go both directions
- Generic Handles

- **Adjustable stem packing gland**
- Maximum operating temerature: 248°F (120° C) at 600 PSI
- Minimum operating temperature: -20°F (-40°C)
- Each valve individually tested
- Forged Brass - for more strength
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem
- Deeper threads - for better connections

• REVERSIBLE HANDLES

MADE IN ITALY

Female x Female



PART#	SIZE	DIMENSION INCHES						WEIGHT	BOX/CASE	
	NPT	DN	A	B	C	D	CH			
943200	1/4"	.39	1.96	1.53	3.31	.43	.75	0.36	24/96	----
943201	3/8"	.39	1.96	1.53	3.31	.43	.86	0.40	24/96	----
943202	1/2"	.57	2.09	1.57	3.25	.46	.98	0.44	20/80	----
943203	3/4"	.75	2.28	1.77	3.80	.49	1.22	0.57	14/56	----
943204	1"	.94	2.80	2.03	3.80	.59	1.50	0.89	6/24	----
943205	1-1/4"	1.24	3.50	2.32	4.72	0.72	1.85	1.64	4/16	----
943206	1-1/2"	1.49	3.90	3.02	6.38	0.85	2.13	2.78	2/8	----
943207	2"	1.96	4.07	3.27	6.38	.65	2.64	3.21	2/8	----
942208	2-1/2"	2.48	5.80	4.98	7.54	1.06	3.31	6.97	5	----
942209	3"	2.99	6.85	5.63	8.86	1.14	3.89	10.34	3	----
942210	4"	3.54	7.67	6.04	8.86	1.22	4.80	18.77	1	----

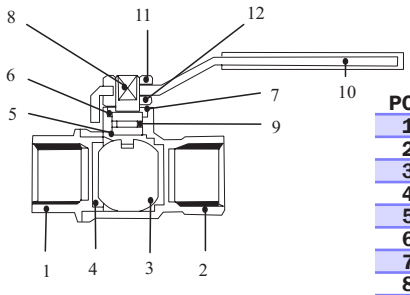
HANDLE OPTIONS

TEE HANDLES

PART #	VALVE SIZE	
43200T	1/4" - 3/4"	----

LOCKING HANDLES

PART #	VALVE SIZE	
43200L	1/4" - 3/4"	----
43204L	1"	----
43206L	1-1/4" - 1-1/2"	----
43-207L	2"	----



POS	Components	Materials	N
1	Body	Forged Brass	1
2	End Connection	Forged Brass	1
3	Ball	CP Brass	1
4	Ball Stems	P.T.F.E.	2
5	Stem Antif. Seat	P.T.F.E.	1
6	Stem Seat	P.T.F.E.	1
7	Brass Ring	Brass	1
8	Stem	Brass	1
9	O-Ring	NBR 80	1
10	Handle	Steel	1
11	Nut	Steel	1
12	Nut	Brass	1

- **Not Lead Free AB1953 Compliant**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MALE X FEMALE BRASS BALL VALVE

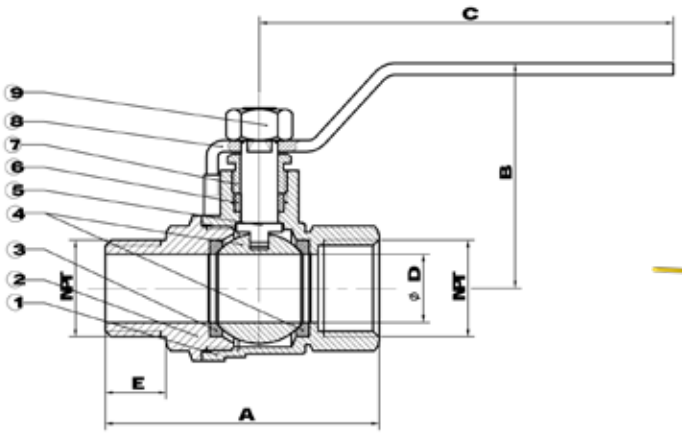
• 600WOG • FULL PORT

UL842, UL258

- Solid chrome plated brass ball
- Suitable for full range of liquids and gases.
- Minimal pressure drop due to large full size ports.
- Bottom loaded, pressure retaining stem.
- Pressure rated at 600psi (42 bars) WOG (non-shock) and 150psi (10.34 bars) saturated steam. Virgin TFE stem packing seal, thrust washer and seats.
- Yellow vinyl insulator on heavy duty plated carbon steel handles.
- Fast 1/4 turn open or close operation.
- Flow both directions.
- Low operating torque.
- Adjustable stem packing gland.
- Generic Handles
- Maximum operating temperature: 248^{0}F (120^{0}C)
- Minimum operating temperature: -20^{0}F (-40^{0}C)
- Each valve individually tested.
- Forged Brass - for more strength.
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball

- Not Lead Free

PART#	SIZE	NPT	A	B	C	D	E	WEIGHT	BOX/CASE	
948170	1/4"	1/4 - 18	2.016	1.689	2.756	0.315	0.457	0.29	70/140	----
948171	3/8"	3/8 - 18	2.094	1.89	3.543	0.394	0.457	0.33	70/140	----
948172	1/2"	1/2 - 14	2.343	2.05	3.543	0.583	0.520	0.47	50/100	----
948173	3/4"	3/4 - 14	2.618	2.20	3.780	0.748	0.563	0.68	30/60	----
948174	1"	1 - 11.5	3.000	2.579	4.528	0.945	0.630	1.11	20/40	----
948175	1-1/4"	1-1/4 - 11.5	3.563	2.953	4.528	1.260	0.709	1.70	12/24	----
948176	1-1/2"	1-1/2 - 11.5	3.965	3.346	5.512	1.575	0.717	2.50	9/18	----
948177	2"	2 - 11.5	4.496	3.681	5.512	1.969	0.748	3.57	6/12	----



POS	Components	Materials
1	Body	C37700
2	End Cap	CS7700
3	Ball Seat	PTFE
4	Ball	CS7700
5	Stem	CS7700
6	Stem Reducing	PTFE
7	Reducing Nut	CS7700
8	Lever Handle	1008

Locking Handle option
see pg. 182

Tee handle option
see pg. 181

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ITALIAN MALE X FEMALE BALL VALVE

• BRASS • 600WOG • FULL PORT

Gas Approved

5 PSIG
C US
CSA AGA 3.88 5 PSIG

UL842, UL258, UL125,FM

Made in Italy

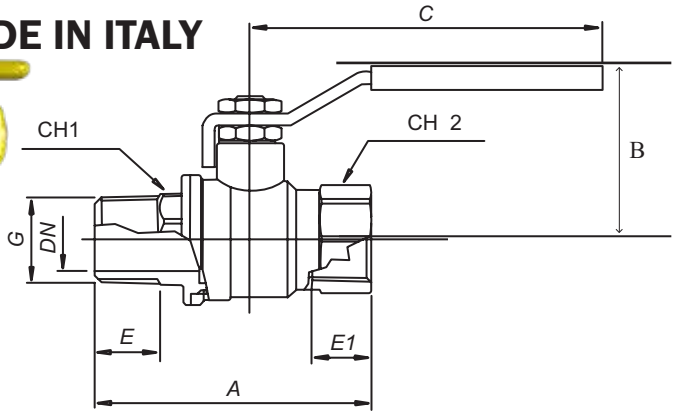
ISO 9002 Manufacturer

FEATURES

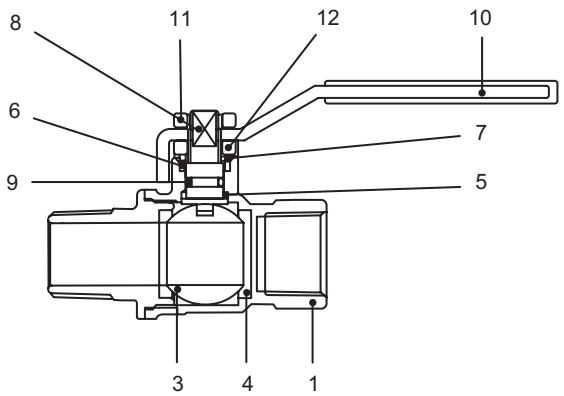
- Solid chrome plated brass ball
- Suitable for full range of liquids and gases.
- Minimal pressure drop due to large full size ports.
- Bottom loaded, pressure retaining stem.
- Pressure rated at 600psi (42 bars) WOG (non-shock) and 150psi (10.34 bars) saturated steam. Virgin TFE stem packing seal, thrust washer and seats.
- Yellow vinyl insulator on heavy duty plated carbon steel handles.
- Fast 1/4 turn open or close operation.
- Generic Handles
- Flow both directions.
- Low operating torque.
- Adjustable stem packing gland.
- Maximum operating temperature: 248°F (120°C) at 600 p.s.i
- Minimum operating temperature: -20°F (-40°C)
- KV: Pressure drop m^3/h.
- Each valve individually tested.
- Forged Brass - for more strength.
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem.
- Deeper threads - for better connections.

MADE IN ITALY

MIP x FIP



PART#	SIZE	DN	A	B	C	E	E1	CH1	CH2	WEIGHT	BOX/CASE	
948101	1/4"	.39	2.18	1.53	3.28	.39	.43	.55	.75	0.35	24/96	----
948102	3/8"	.39	2.20	1.53	3.28	.43	.43	.71	.86	0.35	24/96	----
948103	1/2"	.57	2.54	1.57	3.28	.62	.46	.87	.98	0.42	14/56	----
948104	3/4"	.75	2.75	1.77	3.80	.55	.49	1.12	1.22	0.68	12/48	----
948105	1"	.94	3.23	2.03	3.80	.69	.59	1.34	1.50	0.95	6 /24	----
948106	1-1/4"	1.24	3.86	2.32	4.63	.81	.79	1.69	1.90	1.66	4/16	----
948107	1-1/2"	1.49	4.20	2.98	6.28	.85	.64	2.15	2.13	2.83	2/8	----
948108	2"	1.96	4.90	3.27	6.38	.90	.75	2.40	2.64	4.22	1/4	----



POS	Components	Materials	N
1	Body	CW617N Forged Brass	1
2	End Connection	CW617N Forged Brass	1
3	Ball	CW617N CP Brass	1
4	Ball Stems	P.T.F.E.	2
5	Stem Antif. Seat	P.T.F.E.	1
6	Stem Seat	P.T.F.E.	1
7	Brass Ring	CW617N Brass	1
8	Stem	CW617N Brass	1
9	O-Ring	NBR 80	1
10	Handle	UNI EN 10025 Steel	1
11	Nut	UN 5771 Steel	1
12	Nut	CW617N Brass	1

- Not Lead Free

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

TEE HANDLE BALL VALVE – MALE X FEMALE

UL842, UL258

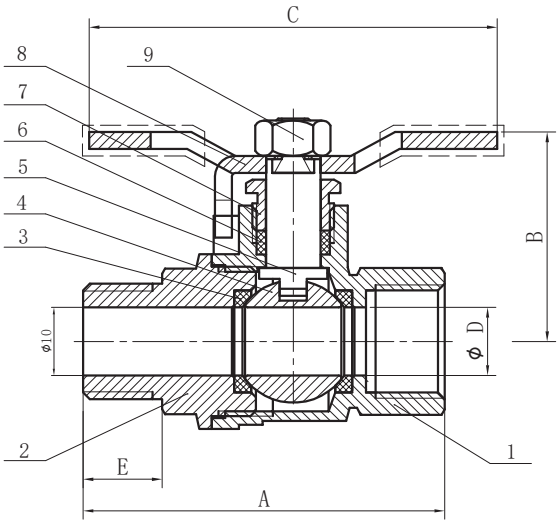
Features

- Thread conform ANSI B1.20.1
- Forged brass body
- Blow out proof stem design
- Packing nut, O-Ring and packing on the stem seal
- Chrome Plated Brass Ball
- Handle with vinyl grip

Performance rating

- 600 PSI (WOG) 150 PSI (WSP) Service
- Temperature range: -20° F to 300° F
- Made in China
- Not lead free

PART#	SIZE	DIMENSION INCHES							
	NPT	A	B	C	D	E	Weight	Box/Case	
948170T	1/4"	2.016	1.27	2.67	0.315	0.457	0.26	70/140	----
948171T	3/8"	2.094	1.213	2.67	0.394	0.457	0.33	70/140	----
948172T	1/2"	2.343	1.61	3.12	0.583	0.520	0.49	50/100	----
948173T	3/4"	2.618	1.26	3.12	0.748	0.563	0.66	30/60	----
948174T	1"	3.000	1.921	3.701	0.945	0.630	1.06	20/40	----
948176T	1-1/2"	3.965	2.717	4.331	1.575	0.717	2.46	9/18	----



Item	Part	Materials
1	Body	Brass
2	End Cap	Brass
3	Ball Seat	PTFE
4	Ball	C/P Brass
5	Stem	Brass
6	Stem Packing	PTFE
7	Packing Nut	Brass
8	T-Handle	Nickel plating steel
9	Stem Nut	Brass plating steel

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LOCKING HANDLE BALL VALVES - FEMALE X MALE

UL842, UL258

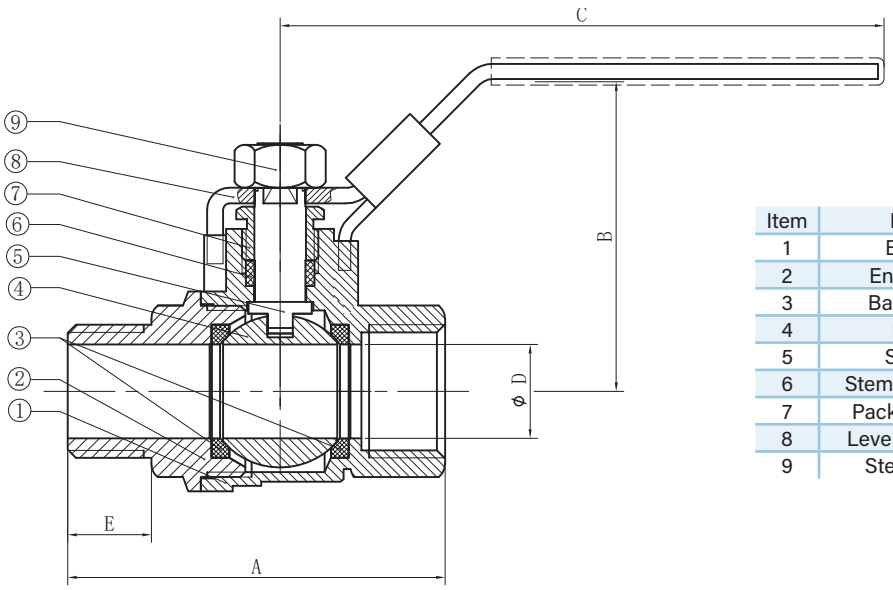
Features

- Thread conform ANSI B1.20.1
- Forged brass body
- Blow out proof stem design
- Packing nut, O-Ring and packing on the stem seal
- Chrome Plated Brass ball
- Handle with vinyl grip

Performance rating

- 600 PSI (WOG) 150 PSI (WSP) Service
- Temperature range: -20° F to 300° F
- Made in China
- Not lead free

PART#	SIZE	DIMENSION INCHES						Box/Case	
	NPT	A	B	C	D	E	Weight		
948170L	1/4"	2.016	1.732	3.543	0.315	0.457	0.32	70/140	----
948171L	3/8"	2.094	1.732	3.543	0.394	0.457	0.37	70/140	----
948172L	1/2"	2.343	1.941	3.543	0.583	0.520	0.50	50/100	----
948173L	3/4"	2.618	2.106	3.78	0.748	0.563	0.77	30/60	----
948174L	1"	3.000	2.579	4.528	0.945	0.630	1.21	20/40	----
948175L	1-1/4"	3.563	2.961	4.528	1.260	0.709	1.74	12/24	----
948176L	1-1/2"	3.965	3.366	5.36	1.575	0.717	2.58	9/18	----
948177L	2"	4.496	3.701	5.36	1.969	0.748	3.73	6/12	----



Item	Part	Materials
1	Body	Brass
2	End Cap	Brass
3	Ball Seat	PTFE
4	Ball	C/P Brass
5	Stem	Brass
6	Stem Packing	PTFE
7	Packing Nut	Brass
8	Lever Handle	Nickel plating steel
9	Stem Nut	Brass plating steel

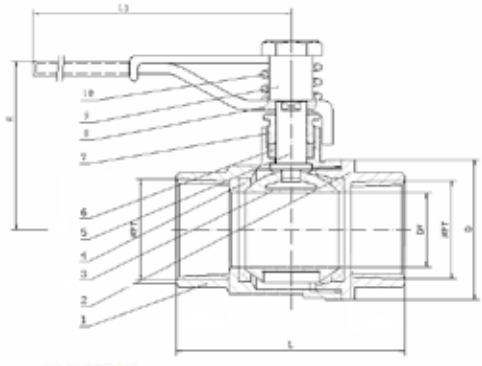
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SPRING HANDLE/ RIGHT ANGLE

VALVES

BRASS SPRING HANDLE BALL VALVE

Working pressure:600 PSI for brass
Temperature Range:-40°F to 365°F(-40°C to +185°C)
Material:Brass
Spring Lever Handle w/Vinyl Grip
Made in China
Not lead free

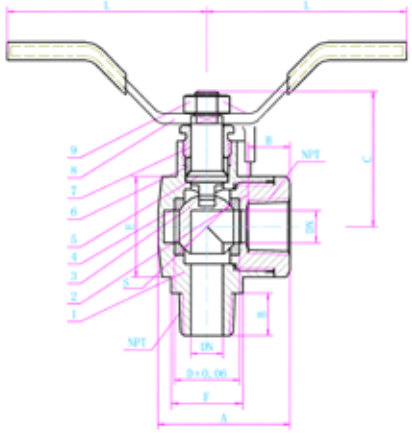


Part #	Part Name	Material
1	Body	Brass
2	Bonnet	Brass
3	Ball	Brass
4	Sealing Seat	PTFE
5	Stem	Stainless Steel
6	Packing Ring	PTFE
7	Gland	Brass
8	Handle	Stainless Steel
9	Bolt	Brass
10	Spring	Stainless Steel

PART#	SIZE	L	D	DN	H	L3	WTG	BOX/ CASE	
947103	1/2"	2.19	1.24	0.59	1.83	4.24	0.54	10/80	----
947104	3/4"	2.38	1.5	0.75	2.19	4.24	0.72	5/40	----
947105	1"	3.23	1.91	0.98	2.49	4.71	1.32	5/30	----

RIGHT ANGLE BRASS BALL VALVE

Working pressure: 250PSI
Temperature Range -40° to 400°F(-40 °C to +205 °C)
With lever Handle Teflon seats 2-pc,full port Heavy Duty forged Body Steel Handle w/Vinyl GripMade in China
Not lead free



Part #	Part Name	Material
1	Body	Brass
2	Cap	Brass
3	Ball	Brass
4	Seat	PTFE
5	Stem	Brass
6	Stuffing	PTFE

PART #	SIZE	A	B	C	D	S	DN	L	E	F	WTG	BOX/ CASE	
947111	1/4	1.59	0.41	1.40	0.64	0.63	0.32	2.60	0.98	0.65	0.34	12/120	----
947112	3/8	1.59	0.41	1.40	0.73	0.71	0.39	2.60	0.98	0.65	0.36	12/120	----
947113	1/2	1.73	0.55	1.40	0.79	0.87	0.55	2.60	1.08	0.83	0.47	10/80	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

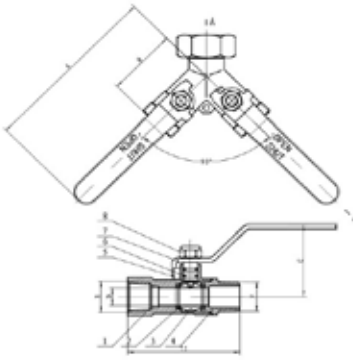
3 WAY AND SAFETY EXHAUST BALL VALVES

VALVES

3-WAY WYE BRASS BALL VALVE,VENTED AND UNVENTED

- Max.pressure:W.O.G.(water,oil,inert gas)
  Unvented Valve:600psi@70ºF
  Vented Valve:250psi@70ºF
  W.S.P.(working steam pressure)
  Unvented Valve:150psi@365ºF
  Vented Valve:Not related
- Vacuum Rating:29"Hg
- Temperature Range:-40º to 365ºF
- Ports:Full

Part#	Part Name	Material
1	Body	Brass Nickel Plated
2	Seat	PTFE
3	Ball	Brass,Cr.Plated
4	Cap	Brass Nickel Plated
5	Stem	Brass
6	O-Ring	Viton



Designed for the portable air compressor industry,these valves control the flow of water, oil, and inert gases in two direction and are great for mixing and diverting. They have a single female inlet and two male outlets with two ball valves.Valves are Brass Nickel Plated and have chrome-plated brass balls,brass blow-out proof stems ,PTFE seats and seals,and steel lever handles with vinyl grips.Vented valves has a drilled hole on the two valve balls and body that vents compressed air in the line when valve is closed. Connections:1"NPT female inlet and 3/4"NPT male outlet. ▪ Made in China ▪ Not lead free

NON-VENTED

NOW WITH STAINLESS STEEL HANDLES

VENTED

PART #	BALL	E	F	A	B	C	D	G	WTG	BOX/CASE	
947125	Non-vented	1" Female	3/4" Male	5.18"	2.5"	2.05"	0.59"	90°	1.43	2/24	----
947126	Vented								1.48	2/24	----

EXHAUST VALVES

AUTOMATIC DRAIN & LATCH LOCK HANDLE

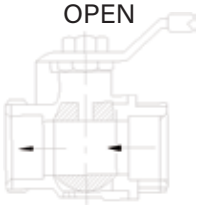
Full port hot forged brass ball valve, blow-out proof stem, downstream automatic vent with lockable handle in compliance with OSHA requirements.

- Maximum working pressure: 200 PSI (CWP).
- Temperature rating: +15°F through +210°F.
- Made in Italy
- Not lead free

200 PSI

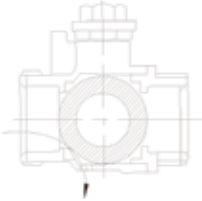
▪ w/ 10/32 UNP tap for drain.

OPEN



Valve - open position. Drain vent shut off.

CLOSED



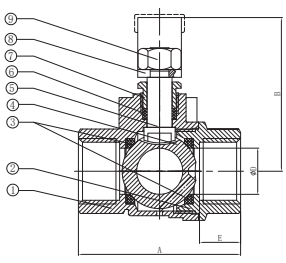
PART#	SIZE	
948131	1/4"	----
948132	3/8"	----
948133	1/2"	----
948134	3/4"	----
948135	1"	----

Valve - closed and draining occurs. Upstream seat prevents air flow. Downstream system is vented to atmosphere.

SAFETY EXHAUST BALL VALVE

- Threaded - Two Piece Body - Full Port ▪ Vented
- Blow-out Proof Stem - PTFE Seats ▪ 400 PSI WOG
- To Exhaust and Downstream Air in the Closed Position w/ locking lever handle.
- Made in China ▪ Not lead free ▪ 150 SWP

PART #	SIZE	A	B	D	E	
948141	1/4"	1.756	1.88	0.394	0.457	----
948142	3/8"	1.756	1.88	0.394	0.457	----
948143	1/2"	2.047	2.13	0.583	0.520	----
948144	3/4"	2.362	2.28	0.748	0.563	----



MATERIAL LIST

Item	Part	Material
1	Body	Brass
2	End Cap	Brass
3	Ball Seat	PTFE
4	Ball	Brass
5	Stem	Brass
6	Stem Packing	PTFE
7	Packing Nut	Brass
8	Lever Handle	Nickel plating steel
9	Stem Nut	Nickel plating steel

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

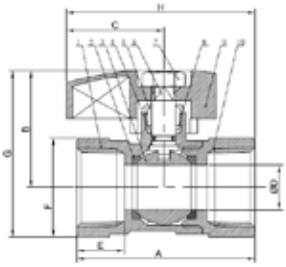
GAS BALL VALVES

5 PSIG
C US
CSA AGA 3.88 5 PSIG

Manual Valve
UL LISTED
Threaded NPT
UL 842, UL 258, UL 125

ISO 9002 MANUFACTURER FEATURES

- Material: C37700
- Forged brass,Regular port,Thread*Flare Thread
- Thread ends in ANSI B1.20.1
- Working temperature:0-65°(32-149°)
- Pressure :1/2PSI;5PSI;
- ASME B16.44/CR91; ANSI Z21.15/CSA9.1
- UL 125 For LP-Gas 125psig
- Made in China



NO.	ITEM	TOTAL	MATERIAL
10	BALL VALVE CAP	1	BRASS
9	HANDLE	1	AL-alloy
8	PACKING	1	PTFE
7	HANDLE NUT	1	PLATED STEEL
6	STEM	1	BRASS
5	PACKING NUT	1	BRASS
4	O-RING	1	NBR
3	BALL	1	BRASS
2	SEALING WASHER	2	PTFE
1	BALL VALVE BODY	1	BRASS

GAS BALL VALVE (2-PIECE)
FEMALE X FEMALE

PART#	SIZE	WTG	BOX/CASE	
943311	3/8"	0.35	10/100	----
943312	1/2"	0.44	10/100	
943313	3/4"	0.62	10/100	----

SIZE	⌀D	A	B	C	E	F	G	H
3/8″	0.394	1.752	1.437	1.28	0.472	0.945	1.909	2.146
1/2″	0.394	2.204	1.437	1.28	0.606	1.043	1.961	2.461
3/4″	0.591	2.362	1.535	1.28	0.626	1.299	2.815	2.476

FLARE X FLARE

PART#	SIZE	
943342	3/8	----
943343	1/2	----
943345	5/8	----
943344	15/16	----

FLARE X MIP

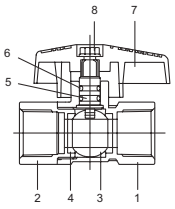
PART#	SIZE	
943347	3/8 x 1/2	----
943348	1/2 x 1/2	----

FLARE X FIP

PART#	SIZE	
943331	3/8 x 1/2	----
943332	1/2 x 1/2	----
943351	5/8 x 3/4	----
943350	15/16 x 3/4	----

- For use with natural, manufactured, mixed liquified. petroleum and LP gas-air mixtures.
- Deeper thread connections. Smooth quarter-turn.
- Manufactured to ANSI Z21.15, C.G.A. 9.1-M81, 9.2-M88, 1/2 psig. 372 also to A.G.A.3-8, C.G.A. CR91-002, 2 psig.
- Solid chrome plated brass ball
- Bottom entry
- Blow out proof design.
- Double viton o-rings stem seals
- Teflon seats for durability.
- Forged construction for greater strength.
- Larger ports for increased flow capacity.
- Red Reversible handle.
- May be used with water 400 WOG.

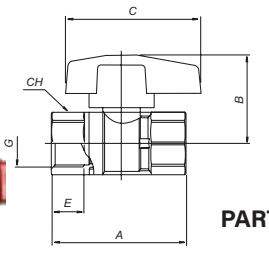
MADE IN ITALY



	Components	Materials
1	Body	Forged Brass
2	End Connection	Forged Brass
3	Ball	Forged Brass
4	Ball Seats	P.T.F.E.
5	Stem	Brass
6	O-Ring	NBR
7	Butterfly	Steel
8	Screw	UNI 5771 Steel

5 PSIG
C US
CSA AGA 3.88 5 PSIG

Manual Valve
UL LISTED
Threaded NPT
UL 842, UL 258, UL 125



GAS BALL VALVES
FEMALE X FEMALE

PART#	SIZE G	DIMENSION INCHES DN	A	B	C	E	CH	PN in psi	WTG	Box/ Case	
943212	1/2"	.47	2.26	1.45	2.28	.55	.98	600	0.33	20/80	
943213	3/4"	.59	2.48	1.57	2.28	.57	1.22	600	0.45	14/56	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

CHROME PLATED BRASS MINI BALL VALVES

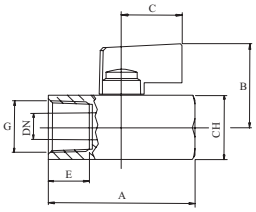
VALVES

ITALIAN CHROME PLATED BRASS MINI BALL VALVE

ISO 9002 Manufacturer

FEATURES

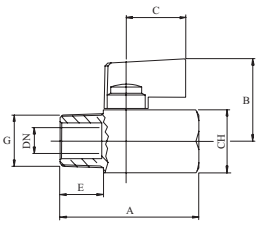
- Solid chrome plated brass ball
- Max working pressure 235 psi will handle 300psi@75° F
- Longer body style for longer, deeper thread connections
- One piece drawn sand blasted chrome plated body.
- Each valve is seal tested for maximum safety.
- Double seal system allows valve to be operated in both directions making installation easier.
- Blowout-proof brass stem.
- NPT taper ANSI B1.20.1 threads.
- 32°F to +176°F temperature.
- 1/4 Turn Aluminium handle with mechanical stop.
- NSF Approved valves available upon request!
- Not lead free



Made in Italy

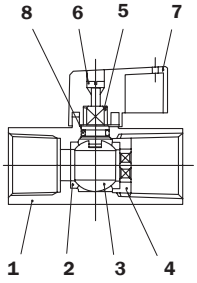
Female x Female

PART#	SIZE G	SIZE DN	DIMENSION INCHES A	B	C	E	CH	WTG	BOX/ CASE	
46922I	1/4"	0.31	1.81	1.17	0.9	0.51	0.83	0.24	50/200	----
46923I	3/8"	0.31	1.85	1.17	0.9	0.51	0.83	0.22	50/200	----
46924I	1/2"	0.39	2.18	1.26	0.9	0.61	0.98	0.32	30/120	----

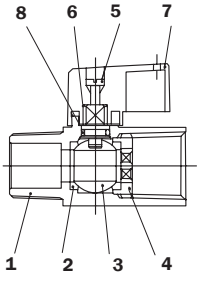


Male x Female

PART#	SIZE G	SIZE DN	DIMENSION INCHES A	B	C	E	CH	WTG	BOX/ CASE	
46903I	1/4"	0.31	1.75	1.17	0.9	.40	0.83	0.20	50/200	----
46904I	3/8"	0.31	1.81	1.17	0.9	.41	0.83	0.20	50/200	----



POS	Components	Materials	N
1	Body	CW517N Forged Brass	1
2	Ball Seats	P.T.F.E	2
3	Ball	CW517N CP Brass	1
4	Ring Unit	CW614N Brass	1
5	Stem	CW614N Brass	1
6	Screw	UNI 5771 Steel	1
7	Handle	Aluminum	1
8	O-Ring	NBR 80	1

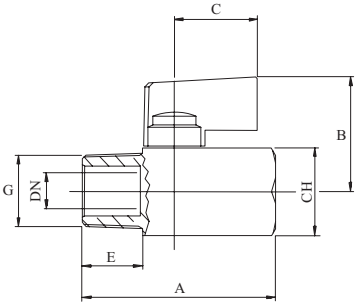


YELLOW BRASS 1/4" MINI MALE X FEMALE VALVE

- **Proprietary seal design extreme for low & high temperature applications**
- **-76° to +248°F temperature.**
- Nominal working pressure 235 psi will handle 300psi@75° F
- One piece drawn sand blasted brass plated body. Solid chrome plate brass ball
- Double seal system allows valve to be operated in both directions making installation easier.
- Blowout-proof brass stem.
- NPT taper ANSI B1.20.1 threads.
- **1/4 TURN BLACK METAL HANDLE WITH MECHANICAL STOP**.

MALE X FEMALE

MADE IN ITALY



Part#	Size NPT	Size DN	Dimension Inches A	B	C	E	CH	CASE	
46903ISB	1/4"	0.315	1.75	1.18	0.91	0.48	0.83	200	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MINI BALL VALVES
VALVES

MINI BALL VALVES

- Chrome plated forged brass body
- Chrome plated brass ball
- NPT taper ANSI B1.20.1 threads*
- 450 PSI working pressure
- At 212°F - 355 PSI
- At 356°F - 142 PSI
- 1/4 Turn Alumzinc handle
- Not lead free
- Made in China

See page 107 for C/P Push-In mini ball valves

FEMALE X FEMALE - FLAG HANDLE

PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	F	G			
46934	1/8	1.57	0.24	0.93	1.46	0.21	20/300	----
46935	1/4	1.57	0.31	0.93	1.46	0.20	20/300	----
46936	3/8	1.57	0.28	0.93	1.46	0.22	20/300	----
46937	1/2	1.77	0.35	0.93	1.56	0.24	20/200	----

MINI BALL VALVES W/VITON SEALS

FEMALE X FEMALE - LEVER HANDLE

PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	F	G			
46934L	1/8	1.57	0.24	1.99	1.50	0.21	20/300	----
46935L	1/4	1.57	0.31	1.99	1.50	0.20	20/300	----
46936L	3/8	1.60	0.28	1.99	1.50	0.22	20/300	----
46937L	1/2	1.77	0.35	1.99	1.59	0.24	20/200	----

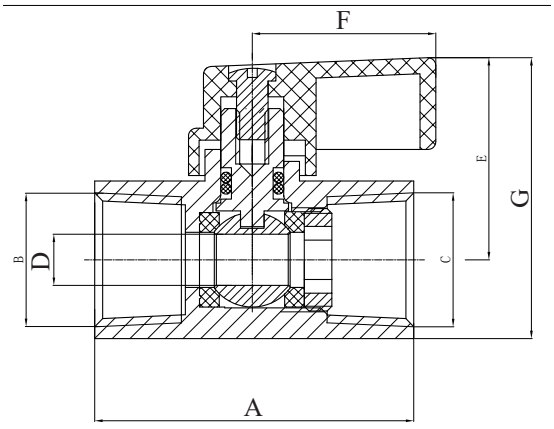
FEMALE X FEMALE - TEE HANDLE

PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	HAN-DLE	G			
46934LT	1/8	1.60	0.24	1.34	1.43	0.21	20/300	----
46935LT	1/4	1.57	0.31	1.34	1.43	0.20	20/300	----
46936LT	3/8	1.60	0.28	1.34	1.43	0.22	20/300	----

FEMALE X FEMALE - SCREWDRIVER

PART #	SIZE	DIMENSIONS (IN)		WT LBS	BOX/CASE	
		A	D(FLOW)			
46934LS	1/8	1.57	0.24	0.21	20/300	----
46935LS	1/4	1.57	0.31	0.20	20/300	----
46936LS	3/8	1.57	0.28	0.22	20/300	----
46937LS	1/2	1.77	0.35	0.24	20/200	----

- Not lead free



Pos	Components	Materials	N
1	Body	CP Forged Brass	1
2	Ball Seats	P.T.F.E.	2
3	Ball	CP Brass	1
4	Ring Unit	Brass	1
5	Stern	Brass	1
6	O-Ring - flag handle	NBR 80	1
6	O-Ring - all oth-ers	Viton	1

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MINI BALL VALVES
VALVES

MINI BALL VALVES

- Chrome plated forged brass body
- Chrome plated brass ball
- NPT taper ANSI B1.20.1 threads*
- 450 PSI working pressure
- At 212°F - 355 PSI
- At 356°F - 142 PSI
- 1/4 Turn Alumzinc handle
- Not lead free
- Made in China

MALE X FEMALE - FLAG HANDLE

PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	F	G			
46930	1/8	1.57	0.24	0.93	1.46	0.17	20/300	----
46931	1/4	1.57	0.31	0.93	1.46	0.15	20/300	----
46932	3/8	1.57	0.28	0.93	1.46	0.21	20/300	----
46933	1/2	1.77	0.35	0.93	1.56	0.24	20/200	----

MINI BALL VALVES W/VITON SEALS

MALE X FEMALE - LEVER HANDLE

PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	F	G			
46930L	1/8	1.57	0.24	1.99	1.50	0.17	20/300	----
46931L	1/4	1.57	0.31	1.99	1.50	0.15	20/300	----
46932L	3/8	1.57	0.28	1.99	1.50	0.21	20/300	----
46933L	1/2	1.77	0.35	1.99	1.59	0.24	20/200	----

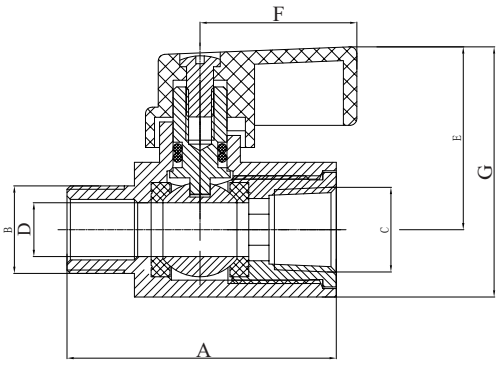
MALE X FEMALE - TEE HANDLE

PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	HANDLE	G			
46930T	1/8	1.57	0.24	1.34	1.46	0.17	20/300	----
46931T	1/4	1.57	0.31	1.34	1.46	0.15	20/300	----
46932T	3/8	1.57	0.28	1.34	1.40	0.21	20/300	----
46933T	1/2	1.77	0.35	1.34	1.56	0.24	20/200	----

MALE X FEMALE - SCREWDRIVER

PART #	SIZE	DIMENSIONS (IN)		WT LBS	BOX/ CASE	
		A	D(FLOW)			
46930S	1/8	1.57	0.24	0.17	20/300	----
46931S	1/4	1.57	0.31	0.15	20/300	----
46932S	3/8	1.57	0.28	0.21	20/300	----
46933S	1/2	1.77	0.35	0.24	20/200	----

- Not lead free



Pos	Components	Materials	N
1	Body	CP Forged Brass	1
2	Ball Seats	P.T.F.E.	2
3	Ball	CP Brass	1
4	Ring Unit	Brass	1
5	Stern	Brass	1
6	O-Ring - flag handle	NBR 80	1

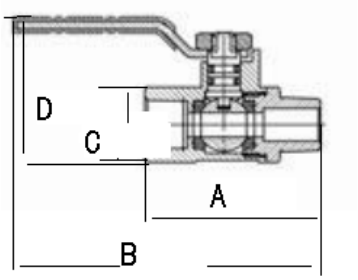
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FORGED BRASS MINI-BALL VALVES

- 180⁰ operational handle, blow out proof stem. Stem with double "O" Rings
- 200 WOG
- Temp rating -20°F - 250°F
- Generic Handles
- Not lead free

See page 107 for C/P mini ball valves

NO	Part Name	Material	QTY
1	Nut	Steel	1
2	Handle	Steel	1
3	Cover	PVC	1
4	O-Ring	NBR	2
5	Stem	Brass	1
6	Body	Brass	1
7	Seat	Teflon	2
8	Ball Disc	Brass	1
9	End Plug	Brass	1



FEMALE X FEMALE

PART #	SIZE	A	B	C	D	
944113	1/8	1.53	2.80	0.73	1.42	----
944116	1/4	1.53	2.80	0.73	1.42	----
944117	3/8	1.73	2.90	0.87	1.50	----
944140	1/2	2.20	3.08	0.98	1.45	----

FEMALE X MALE

PART #	SIZE	A	B	C	D	
944106	1/8	1.69	3.02	0.73	1.46	----
944100	1/4X1/8	1.28	2.90	0.66	1.32	----
944101	1/4	1.70	3.00	0.73	1.46	----
944103	3/8	1.78	3.02	0.87	1.50	----
944102	3/8X1/4	1.78	2.50	0.89	1.50	----

MALE X MALE

PART #	SIZE	A	B	C	D	
944107	1/8	1.70	2.94	0.65	1.42	----
944109	1/4	1.25	2.66	0.65	1.42	----
944110	3/8	1.90	2.98	0.73	1.42	----
944112	1/2	2.56	4.93	1.02	2.21	----

HOSE BARB X MALE

PART #	SIZE	A	B	C	D	
944132	1/4X1/8	2.05	2.91	0.73	1.51	----
944138	1/4X1/4	2.08	2.98	0.73	1.51	----
944128	3/8X1/4	2.08	3.04	0.73	1.51	----
944130	3/8X3/8	2.12	3.06	0.73	1.51	----
944139	1/2X1/2	2.15	3.19	0.73	1.51	----

HOSE BARB X FEMALE

PART #	SIZE	A	B	C	D	
944135	1/8X1/8	1.78	2.44	0.62	1.38	----
944136	1/4X1/4	1.97	2.87	0.73	1.55	----

HOSE BARB X HOSE BARB

PART #	SIZE	A	B	C	D	
944142	1/4X1/4	2.47	3.19	0.73	1.55	----
944134	3/8X3/8	2.47	3.18	0.73	1.55	----

LEAD FREE

PART #	SIZE	A	B	C	D	
944142LF	1/4	2.49	3.19	0.73	1.55	----
944134LF	3/8	2.47	3.18	0.73	1.55	----

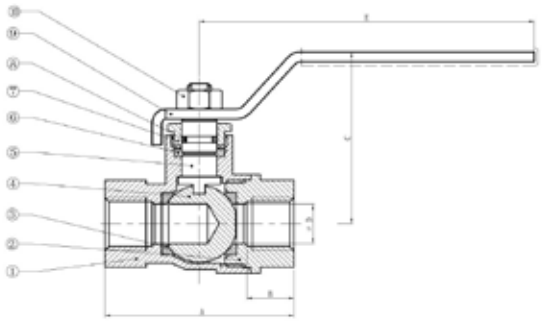
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

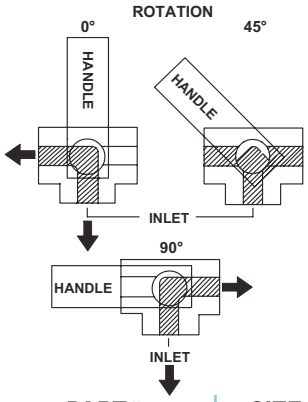
SIDE OUTLET 3-WAY BALL VALVE

• BRASS • 600WOG • FULL PORT

- Forged Brass
- 600 WOG
- Temp Rating 0-230°F
- 150 SWP

- Side outlet





- Full Port
- Blow-out proof stem
- double o-ring stem packing
- PTFE Seal
- Made in China
- Not lead free

Nomenclature & Materials

NO	Part Name	Material	Qty
1	Body	Brass	1
2	End Cap	Brass	1
3	Ball Seat	PTFE	1
4	Ball	Brass	1
5	Stem	Brass	2
6	Seal	PTFE	1
7	Impacted Nut	Brass	1
8	O-Ring	NBR	2
9	Lever Handle	Steel	1
10	Stem Nut	Steel	1

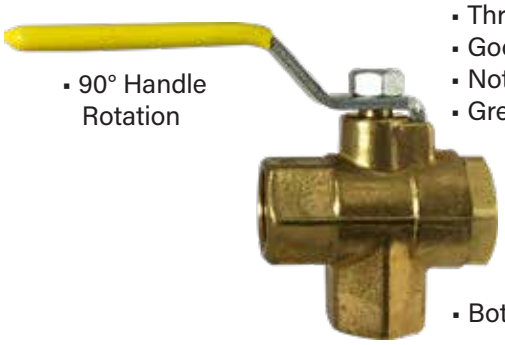
PART#	SIZE	I	H	D	L	A	WTG	BOX/ CASE	
940464	1/4"	1.89	1.73	0.39	3.58	0.47	0.51	50/100	----
940465	3/8"	1.89	1.73	0.39	3.35	0.47	0.57	50/100	----
940461	1/2"	2.11	1.80	0.50	3.58	0.51	0.65	30/60	----
940462	3/4"	2.56	2.16	0.74	4.31	0.55	0.99	20/40	----

BOTTOM OUTLET 3 WAY BALL VALVE

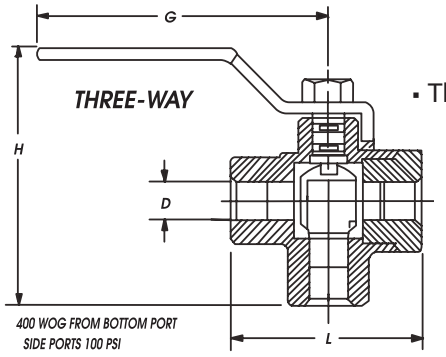
- Forged Brass
  Bottom Port is inlet 400 psi
  Side Ports are inlet 100 psi

- Teflon ball seats
- Double O-Ring Stem Seals - primary seal is Viton secondary seal is Aflas
- Blow out proof stem
- Made in USA
- Threaded ports
- Good for propane
- Not lead free
- Great for diesel fuel

- 90° Handle Rotation



- Bottom outlet



- Threaded

PART#	SIZE	D	G	H	L	CV	WTG	
940121	1/4"	.44	3.50	3.12	2.25	5.2	0.76	----
940122	3/8"	.50	3.50	3.12	2.25	5.5	0.69	----
940123	1/2"	.50	3.50	3.12	2.25	5.5	1.00	----

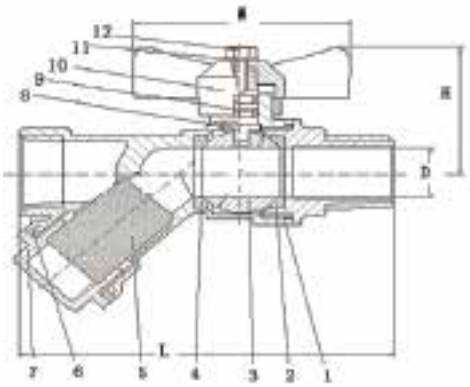
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MISCELLANEOUS VALVES
VALVES

BRASS BALL VALVE WITH STRAINER

All-in-One design for economical ,compact and convenient .With stamped stainless Steel Screen . 600PSI WOG Forged brass body,Crome plated ball ,PTFE ball seats and cap seal , and rubber o-ring stem seals. Not lead free

Part #	Part Name	Material
1	Body	Brass
2	Caps	Brass
3	Ball	Brass,Cr. Plated
4	Seat	PTFE
5	Filter	SS
6	Gasket	PTFE
7	Caps	Brass
8	Stem	Brass
9	O-Ring	Viton
10	Handle	Zinc



PART #	SIZE	L	D	W	H	WTG	BOX/CASE	
947133	1/2"x1/2"(MxF)	3.77"	0.59"	2.00"	1.50"	0.60	8/64	----
947134	3/4"x3/4"(MxF)	4.32"	0.75"	2.40"	1.85"	1.00	8/64	----

VACUUM BREAKER

- Male hose and female hose threads can be broken off for permanent attachment
- Set screw
- Vandal proof
- Rough brass construction
- Prevents back-siphonage on hoses to prevent potable water from getting contaminated
- Certified under ASSE Std. 1011
- UPC
- CSA

PART #	SIZE	
947055	3/4" x 3/4"	----
947055LF	3/4" x 3/4"	----

RADIATOR AIR VALVE

COIN SLOT OR LOSSE KEY

PART #	SIZE	
943284	1/8" MIP	----
943287	Key only	----

ANGLE SILLCOCKS

3/4" HOSE THREAD OUTLET

- Notched flange for convenient installation.
- Heavy brass construction.
- Cast Iron handle.
- Not lead free

FEMALE IPS

PART #	SIZE	BOX	
942142	1/2	12	----

HOSE BIBBS
3/4" HOSE THREAD OUTLET

IPS

PART #	SIZE	WTG	BOX/ CASE	
942170	1/2 (1/2"C)	0.33	10/100	----
942171	3/4	0.35	10/100	----

BENT NOSE GARDEN VALVES

- Heavy brass construction
- Cast iron handle
- Stuffing box
- Neoprene seal disc

PART #	SIZE	BOX	CASE	
942100	1/2"	12	72	----
942101	3/4"	12	72	----
942102	1"	12	72	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

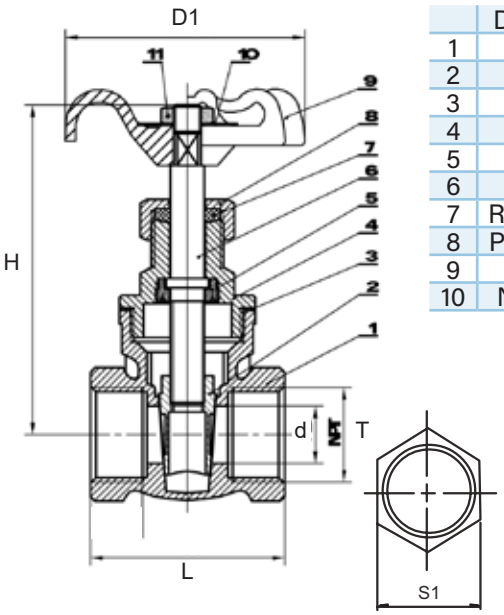
BRASS GATE VALVE

• BRASS • 200WOG • FULL PORT

- 200 WOG (cold water, oil, gas).
- Full-port design for a better water flow.
- Screw-in Bonnet - Non-Rising Stem - Solid Wedge
- NPT Threaded ends to ANSI B1.20.1
- Cast iron handle.
- Each valve individually air tested under water.
- Good for diesel fuel.
- Made in Indonesia
- Not lead free
- Temp. 32°-320°F

BRASS GATE VALVES IPS

PART#	SIZE	L	H	D1	D	T	S1	WEIGHT	BOX/CASE	
940130	1/4	1.64	2.91	2.09	0.44	1/4-18 NPT	.85	0.60	10/120	----
940131	3/8	1.71	2.91	2.09	0.48	3/8-18 NPT	.85	0.59	10/120	----
940132	1/2	1.71	2.91	2.09	0.50	1/2-14 NPT	1.03	0.75	10/120	----
940133	3/4	1.71	3.06	2.13	0.74	3/4-14 NPT	1.26	0.83	10/80	----
940134	1	2.13	3.60	2.48	0.97	1-11.5 NPT	1.51	1.24	5/60	----
940135	1-1/4	2.24	4.50	2.66	1.22	1-1/4-11.5 NPT	1.89	1.69	5/40	----
940136	1-1/2	2.44	5.08	3.15	1.45	1-1/2-11.5 NPT	2.17	2.17	5/30	----
940137	2	2.70	5.94	3.52	1.85	2-11.5 NPT	2.60	3.33	2/24	----
940138	2-1/2	3.70	7.87	3.98	2.48	2-1/2-8 NPT	3.27	6.26	1/10	----
940139	3	4.02	8.82	4.37	2.80	3-8 NPT	3.86	8.34	1/6	----
940140	4	4.53	9.88	4.74	3.60	4-8 NPT	4.88	13.09	1/4	----



	Description	Material
1	Body	C85700
2	Disk	C85700
3	Seat	PTFE
4	Cap	C85700
5	Packing	C85700
6	Stem	C85700
7	Rubber Seat	NBR
8	Packing Nut	C85700
9	Handle	Cast Iron
10	Nameplate	AL

Crown handle
1/2-1/4

X handle
1/2-1/4

Add "*C*" to part# for Crown handle, "*X*" for X handle.

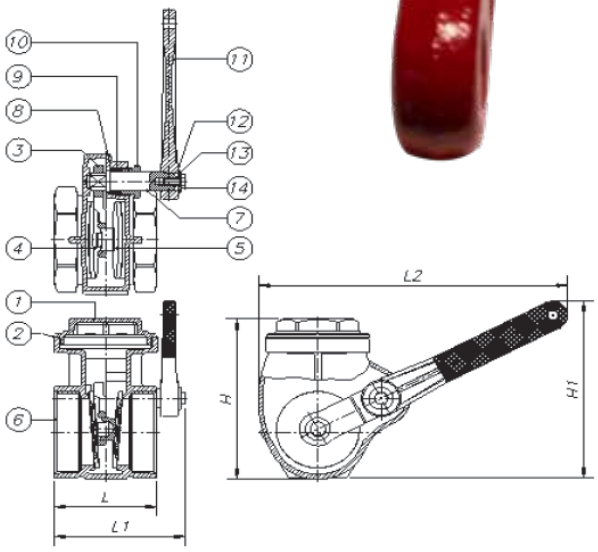
See page 218 for SS Gate Valve

See Lead Free section page 182 for lead free Gate Valves.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GATE VALVE QUICK OPENING

Features: Bronze Material, Threaded Ends



MATERIAL SPECIFICATION

No.	Part	Bronze
1	BONNET	BRASS (C85700)
2	PACKING	FIBRE
3	ARM	BRASS (C85700)
4	DISC MALE	BRASS (C85700)
5	DISC FEMALE	BRASS (C85700)
6	BODY	BRASS (C85700)
7	STEM	BRASS (C37700)
8	WASHER	BRASS (C37700)
9	PACKING	TEFLON POLYFLON (PTFE M-392)
10	PACKING NUT	BRASS (C37700)
11	HANDLE	CAST IRON (JIS ZZ2202) RUBBER COATING BRASS (C85700)
12	NAME PLATE	ALUMINIUM (A1100)
13	WASHER	HOT ROLLED (SAE 1010R)
14	HANDLE BOLT	HOT ROLLED (SAE 1010R)

PART #	SIZE	L	L1	L2	H	H1	BOX	CASE	
941133	1/2"	45.6	60.6	119	56.8	52.8	10	50	----
941134	3/4"	51	62	126.3	68	87.5	10	50	----
941135	1"	58.3	72.3	155	78.7	90.2	10	30	----
941136	1-1/4"	30.1	78	180.2	89.5	104	5	25	----
941137	1-1/2"	66.7	85.3	196.6	99.2	131	6	18	----
941138	2"	76.4	90.3	250.6	119.3	143.7	2	10	----
941140	3"	101	129.2	305.6	172.2	191.3	2	6	----
941141	4"	114.5	150.7	378.2	213.5	248.6	1	2	----

Ignorance, the root and stem of all evil. - Plato

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

Y-PATTERN STRAINER
VALVES

CLASS 150 BRASS Y-PATTERN STRAINER

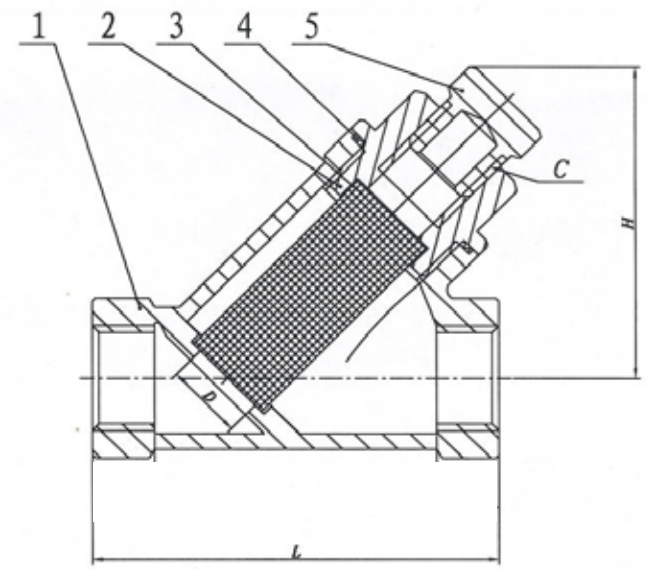
- Forged Brass body, size 1/4"-3".
- Pressure rating: 150 WOG (water, oil, gas)/PN25
  150 WSP (Saturated Stem)
- NPT Threaded ends to ANSI B1.20.1
- Protects regulators, pumps, meters and other controls from damage due to sediment scale, metal chips or other foreign materials.
- Screwed cap is threaded & gasketed.
- Tapped drain plug opening in cap.
- 304 stainless steel screen #20 mesh.
- Self cleaning.
- Self cleaning can be accomplished by opening the valve or plug connected to the blow-off outlet.
- Made in Indonesia
- NOT LEAD FREE
- w/20 Mesh Screen
- Temp 180°F

PART#	SIZE	L	H	C (PLUG)	WEIGHT	BOX/CASE	
940521	1/4"	2.57	1.95	NPT 3/8	.53	10/100	----
940522	3/8"	3.23	2.44	NPT 3/8	.71	12/48	----
940523	1/2"	3.23	2.44	NPT 3/8	.66	12/48	----
940524	3/4"	3.94	2.78	NPT 3/8	1.10	8/48	----
940525	1"	4.53	3.19	NPT 1/2	1.71	8/32	----
940526	1-1/4"	5.33	3.66	NPT 1/2	2.49	6/24	----
940527	1-1/2"	6.20	3.82	NPT 1/2	3.24	2/16	----
940528	2"	7.44	4.65	NPT 1/2	5.39	2/8	----
940529	2-1/2"	9.50	5.39	NPT 3/4	9.56	1/6	----
940530	3"	9.4	5.67	NPT 3/4	13.49	1/4	----

Add 'S' to part # for replacement

See page 172 for 1/2" Lead Free

See page 207 for SS Y Strainer

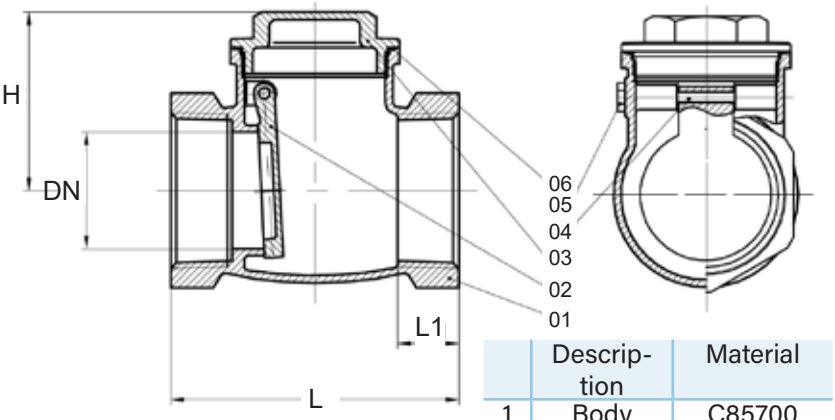


	Name	Material
1	BODY	C85700
2	BONNET	C85700
3	STRAINER	304 S.S.
4	SPRING SEAL	PTFE

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS SWING CHECK VALVES

- Working pressure non-shock: 200 psi W.O.G. (cold water, oil, gas) 125 psi WSP (saturated steam)
- Swing type disc.
- Screwed Cap.
- Hard Seat.
- 90⁰ Straight Pattern.
- Used to prevent reverse flow in commercial and industrial applications.
- Threaded ends to ANSI B1.20.1
- Integral seat.
- Temp range -5° - 150F°
- NOT LEAD FREE
- Cracking pressure 3-5 psi
- Made in Indonesia



	Descrip-tion	Material
1	Body	C85700
2	Disc	C85700
3	Cap	C85700

CAST BRASS SWING CHECK VALVES IPS SCREWED ENDS

PART #	SIZE	L	H	L1	DN	WEIGHT	BOX/CASE	
940352	1/2	2.09	1.42	0.531	0.512	.41	10/100	----
940353	3/4	2.36	1.56	0.579	0.728	.56	10/80	----
940354	1	2.62	1.77	0.748	0.925	.73	5/60	----
940355	1-1/4	3.19	2.07	0.748	1.201	1.36	5/40	----
940356	1-1/2	3.54	2.16	0.846	1.417	1.56	5/30	----
940357	2	4.21	2.74	0.886	1.772	2.58	2/20	----
940358	2-1/2	5.14	3.09	1.063	2.224	4.55	1/15	----
940359	3	5.77	3.80	1.102	2.579	6.53	1/6	----
940360	4	6.84	4.25	1.102	3.602	10.18	1/4	----

▪ See page 182 for Lead Free Brass Swing Check

▪ See page 218 for SS Swing Check Valves

Y PATTERN BRASS SWING CHECK VALVE SCREWED ENDS

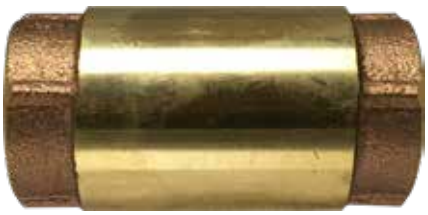
PART #	SIZE	
940-352B	1/2"	----
940-353B	3/4"	----
940-354B	1"	----
940-355B	1-1/4"	----
940-356B	1-1/2"	----
940-357B	2"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS CHECK VALVES

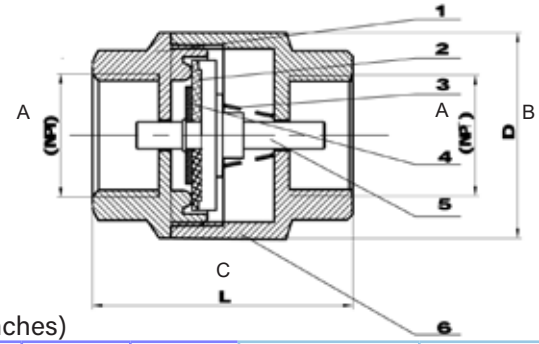
S.S. SPRING LOADED BRONZE POPPET - For positive sealing & self-cleaning. Insures against leakage.

- Inline Lift Type - Resilient Discs - Spring Actuated - Threaded.
- Presure rating: 200 WOG (water, oil, gas) / 125 WSP (Saturated Steam)
- Spring in stainless steel AISI 304. • Resilient washer hold/ disc in brass. • Forged Brass Body for 1/2"-2"
- Corrosion resistant material. • Can be used vertically or horizontally. • Opens & Closes with flow of media.
- No cracking pressure. • NOT LEAD FREE • Made in Indonesia



1/4 Made in Taiwan

Temp Range
-10°C - 110°C
14°F - 248°F



Brass Check Valve (Inches)

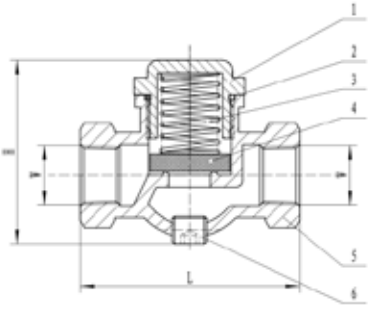
Part#	Size	Enters Pipe Size	A NPT	B	C	Weight	Box/Case	
944428	1/4"	-	1/4"	1.00	2.29	.24	24/192	----
944429	3/8"	-	3/8"	1.00	2.07	.23	10/100	----
944430	1/2"	1-1/4"	1/2"	1.26	2.40	.42	10/100	----
944431	3/4"	1-1/4"	3/4"	1.45	2.74	.53	10/80	----
944432	1"	2"	1"	1.77	3.23	.80	6/60	----
944433	1-1/4"	2-1/2"	1-1/4"	2.13	3.62	1.18	4/40	----
944434	1-1/2"	3"	1-1/2"	2.29	4.04	1.40	5/30	----

• See page 182 for Lead Free Brass Check

• See page 215 for SS Check Valves

IN LINE CHECK VALVES VERTICAL OR HORIZONTAL

• Working Pressure: 250 PSI • Temperature Range: -40° to 450°F(-40°to 230°C)
• Cracking Pressure: 3 PSI • Made in China • Not lead free
• Applications:Air Compressor Discharge Lines, may also used on water or oil lines
• Construction:Cast Bronze Body,Corrosion Resistant Stainless Steel Spring to Ensure Long Life,15% Glass Filled • Teflon Poppet,C360 Machined Brass Cap,1/8 NPT Unloader Port is Standard • Repairable



Part#	Part Name	Material
6	Plug	Brass
5	Body	Bronze
4	Gasket	PTPF
3	Spring	S.Steel
2	O-ring	HNBR
1	Cap	Brass

PART #	SIZE	W	L	H	WTG	BOX/CASE	
947140	1/8"	1/8	1.75	1.34	0.28	20/100	----
947141	1/4"	1/4	1.75	1.37	0.29	20/100	----
947142	3/8"	3/8	2.50	2.18	0.62	10/50	----
947143	1/2"	1/2	2.50	2.13	0.54	10/50	----
947144	3/4"	3/4	2.88	2.64	1.17	8/40	----
947145	1"	1	3.61	3.30	1.98	2/20	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS IN-LINE CHECK VALVES

High Capacity, Size 1/4"-2" 400 WOG, 2 1/2"-4" 175 WOG

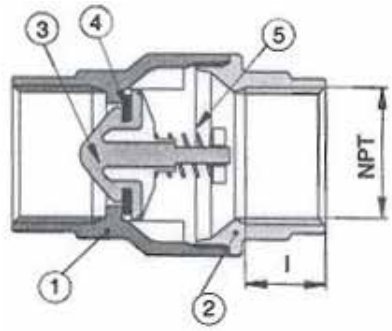
- Soft Seat for Bubble Tight Shutoff, Spring Loaded for Fast Seating Action.
- Compact design.
- Low Cracking Pressure 1/2 psi.
- Flow Profile Designed to Minimize Head Loss.
- Perfect Seating both at High and Low Pressure, Wide Temperature Range: +10° to 210°F.
- Polyethermide Disc to ensure the Best Resistance For Corrosion and Abrasion.
- Patented Disc Guide to Prevent Any Side Loading.
- Connection: FNPT x FNPT.
- Made in Italy ▪ Not lead free

NBR for water, oils and general purpose.
With VITON® Seal for fuels and hydrocarbons. Max working TEMPERATURE 325°F/125 psi steam

Add V to part# for Viton®

BRASS IN-LINE CHECK

PART#		SIZE	I	PSI	LBS	CASE	VITON PART#	
944401	----	1/4"	0.39	400	0.22	144		
944402	----	3/8"	0.40	400	0.18	144	944402V	----
944403	----	1/2"	0.60	400	0.32	144	944403V	----
944404	----	3/4"	0.65	400	0.49	90	944404V	----
944405	----	1"	0.66	400	0.71	90	944405V	----
944406	----	1-1/4"	0.68	400	1.13	30	944406V	----
944407	----	1-1/2"	0.68	400	1.53	30	944407V	----
944408	----	2"	0.69	400	2.28	12	944408V	----
944409	----	2-1/2"	0.93	175	4.83	4	944409V	----
944410	----	3"	1.01	175	6.70	4	944410V	----
944411	----	4"	1.09	175	12.43	2	944411V	----



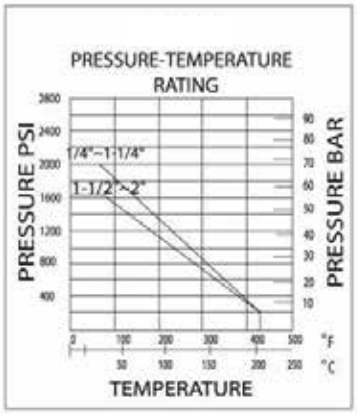
NO	Part	Material	PCS
1	BODY	BRASS	1
2	END CONNECTION	BRASS	1
3	DISC	POLYETHERIMIDE	1
4	SEAT	100002 NBR	1
		100003 Viton	1
5	SPRING	STAINLESS STEEL	1

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

316 SS FULL PORT VALVES
VALVES

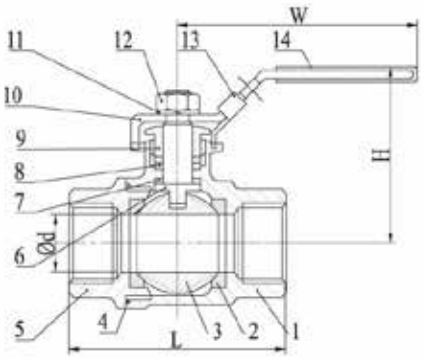
316 SS 2-PC BALL VALVE, FULL PORT, THREADED END, 2000 PSI

- Investment Castings for body and cap.
- Internal Entry blow-out proof stem.
- Pressure rating: 2000PSI.
- Threaded Ends: ANSI B2,1
- Material: CF8M (316SS)
- Pressure test: API 598
- Generic Handles



LOCKING HANDLE

PART#	SIZE	D	L	H	W	N.M	LBS/ PC	CASE	
949171	1/4"	0.36	2.13	2.13	4.33	.157	0.64	80	----
949172	3/8"	0.50	2.13	2.16	4.33	.157	0.58	80	----
949173	1/2"	0.59	2.24	2.28	4.53	.197	0.71	70	----
949174	3/4"	0.79	2.76	2.40	4.53	.315	1.18	50	----
949175	1"	0.98	3.50	3.03	6.04	.394	2.33	30	----
949176	1-1/4"	1.25	4.12	3.19	6.04	.551	3.48	20	----
949177	1-1/2"	1.50	4.05	3.54	6.10	.709	4.03	14	----
949178	2"	1.96	4.90	4.25	6.10	.984	7.50	7	----



NO	Part	Material	QTY
1	BODY	316SS	1
2	BALL SEAT	PTFE	2
3	BALL	316SS	1
4	BODY SEAL	PTFE	1
5	CAP	316SS	1
6	STEM	SS316	1
7	THRUST WASHER	PTFE	1
8	PACKING	PTFE	1
9	GLAND NUT	SS304	1
10	HANDLE	SS304	1
11	WASHER	SS304	1
12	NUT	SS304	1
13	LOCK DEVICE	SS304	1
14	HANDLE COVER	PLASTIC	1

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ONE PIECE STANDARD PORT BALL VALVE

316 Stainless Steel

1000 PSI

- Manufactured for harsh environments with female NPT threads.
- Locking handle for greater security.
- Standard port has restricted flow.
- Made with corrosion resistant stainless steel materials.
- PTFE seat and seals.
- Investment Castings for Body and Cap.
- Internal Entry Blow-out proof stem.
- Pressure rating: 1000PSI (PN63)
- Threaded Ends: ANSI B2.1
- Material: CF8M
- Pressure Test: API 598
- Generic handles

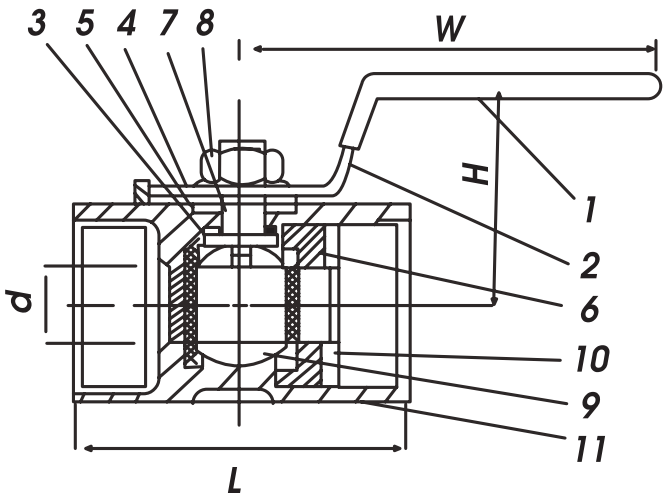
LOCKING HANDLE

Valves will accept a pad-lock on the handle.

dimensions (inches)

PART#	SIZE	D	L	H	W	WEIGHT	CASE	
949101	1/4"	0.20	1.53	1.53	3.03	0.19	150	----
949102	3/8"	0.27	1.74	1.53	3.03	0.23	150	----
949103	1/2"	0.36	2.24	1.73	3.46	0.41	100	----
949104	3/4"	0.50	2.32	1.89	3.46	0.63	70	----
949105	1"	0.59	2.80	2.24	4.29	0.86	50	----
949106	1-1/4"	0.79	3.07	2.32	4.29	1.34	30	----
949107	1-1/2"	0.98	3.26	2.76	5.14	2.00	25	----
949108	2"	1.25	3.94	2.24	6.50	2.88	15	----

Larger sizes available on special order basis



Item	Parts	Material
1	Plastic Cover	Plastic
2	Handle	AISI 304 SS
3	Thrust Washer	PTFE
4	Packing Ring	AISI 304 SS
5	Stem Packing	PTFE
6	Seat	PTFE
7	Seat	AISI 316 SS
8	Stem Nut	AISI 304 SS
9	Ball	316SS ASTM-A351 CF8M
10	Cap	316SS ASTM-A351 CF8M
11	Body	316SS ASTM-A351 CF8M

SS = Stainless Steel

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

316 SS TWO PIECE FULL PORT VALVES

VALVES

TWO PIECE FULL PORT BALL VALVE

316 Stainless Steel

1000 PSI

Materials: CFM8M (SS316)

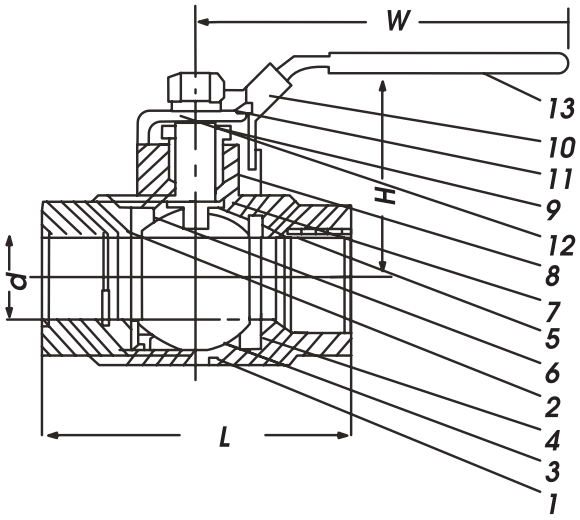
Features:

- Quality manufactured for harsh environments.
- Corrrosion resistant.
- Investment Casting body
- Working pressure 1000 psi for W.O.G.
- Adjustable stem packing
- Pure teflon seals and seats
- Temperature range: -60 to 450°F
- Blow-out proof stem and safe pressure-reducing hole
- 100% leakage tested at 100 psi air under water
- Hydrostatic test pressure: 1500 psi
- Locking handle w/ blue generic sleeve
- 125 Steam rated
- Generic Handles

Valves will accept a pad-lock on the handle.

dimensions (inches)

PART#	SIZE	D	L	H	W	WEIGHT	CASE	
949161	1/4"	0.36	2.13	2.13	4.33	0.51	80	----
949162	3/8"	0.50	2.13	2.16	4.33	0.49	80	----
949163	1/2"	0.59	2.24	2.28	4.17	0.69	70	----
949164	3/4"	0.79	2.68	2.40	4.17	1.03	50	----
949165	1"	0.98	3.15	2.50	4.88	1.40	30	----
949166	1-1/4"	1.26	3.58	3.19	5.04	2.17	20	----
949167	1-1/2"	1.49	4.05	3.54	6.10	3.33	12	----
949168	2"	1.97	4.88	4.25	6.13	6.02	7	----
949170	3"	3.15	7.28	5.71	9.06	21.01	2	----
949180	4"	3.94	8.84	7.28	11.10	36.18	1	----



Item	Parts	Material
1	Body	316SS ASTM-A351 CF8M
2	Body Cap	316SS ASTM-A351 CF8M
3	Ball	316SS ASTM-A351 CF8M
4	Seat	Reinforced PTFE
5	Stem	AISI 316 SS
6	Seal	Reinforced PTFE
7	Thrust Washer	Reinforced PTFE
8	Packing	Reinforced PTFE
9	Gland Nut	AISI 304SS
10/11	Nut & Washer	AISI 304SS
12	Handle	AISI 304SS
13	Plastic Cover	Plastic

SS = Stainless Steel

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STAINLESS STEEL MIN BALL VALVES

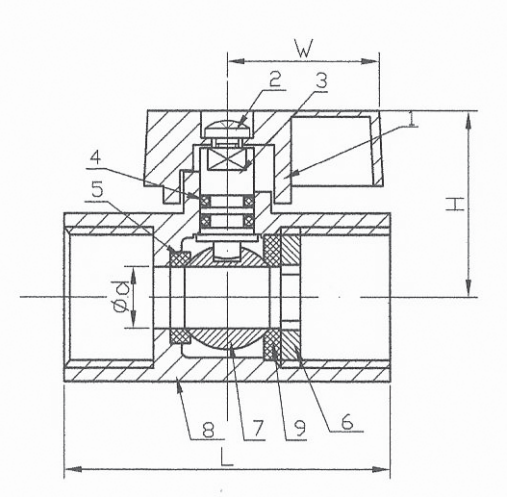
- 316 Stainless Steel
- Working pressure 400PSI
- Working Temperature -10°C to 150°C

FEMALE PIPE x FEMALE PIPE

PART#	SIZE	W	D	H	L	WEIGHT	CASE	
46934SS	1/8"	.898	.197	.985	1.693	.18	150	----
46935SS	1/4"	.898	.276	.984	1.693	.21	150	----
46936SS	3/8"	.898	.276	.984	1.693	.19	150	----
46937SS	1/2"	.898	.362	1.114	1.811	.26	100	----

MALE PIPE x FEMALE PIPE

PART#	SIZE	W	D	H	L	WEIGHT	CASE	
46930SS	1/8"	.898	.197	.985	1.693	.18	150	----
46931SS	1/4"	.898	.276	.984	1.693	.18	150	----
46932SS	3/8"	.898	.276	.984	1.693	.19	150	----
46933SS	1/2"	.898	.362	1.114	1.811	.26	100	----



NO	Part	Material	QTY
1	LEVER	ALUMINIUM ALLOY	1
	HANDLES	PLASTIC	
2	BOLT	304	1
3	STEM	304/ 316	1
4	"O" RING	NBR	1~2
5	BALL SEAT (A)	PTFE	1
6	CAP	CF8/ CF8M	1
7	BALL	CF8/ CF8M	1
8	BODY	CF8/ CF8M	1
9	BALL SEAT (B)	PTFE	1

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

316 SS MINI BALL VALVES

VALVES

MINI STAINLESS STEEL BALL VALVE ,WITH BUTTERFLY HANDLE

1000PSI WOG , 150PSI WSP
Temperature Range: -36°F to + 368°F
Full Port for 1/4" , Standard port for 3/8" and 1/2"
316 Stainless Steel body and Ball
Teflon seats and sealing

- Viton O-Ring
- #316 Stainless Steel
- Made in China

FEMALE PIPE X FEMALE PIPE

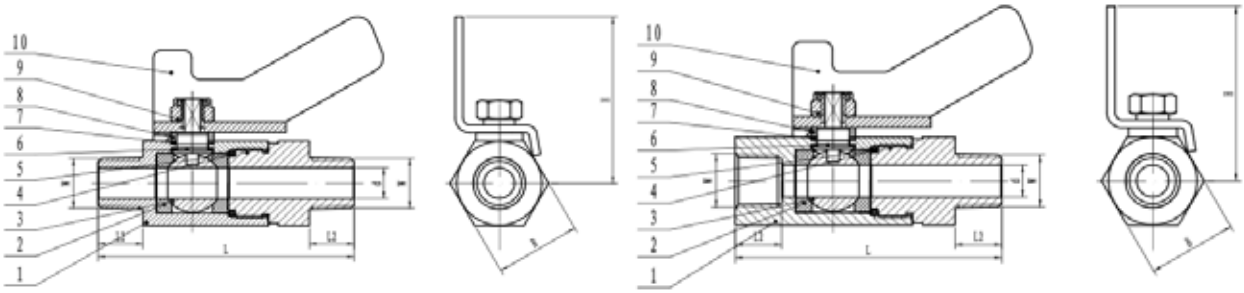
PART #	SIZE FIP X FIP	DIMENSIONS IN				WTG	BOX	
		D	L	B (HEX)	H			
46922SS	1/4"×1/4"	0.314"	2.34"	22.1/0.87"	1.5"	0.33	36	----
46923SS	3/8"×3/8"	0.314"	2.39"	22.1/0.87"	1.5"	0.39	36	----
46924SS	1/2"×1/2"	0.314"	2.81"	24.9/0.98"	1.5"	0.43	36	----

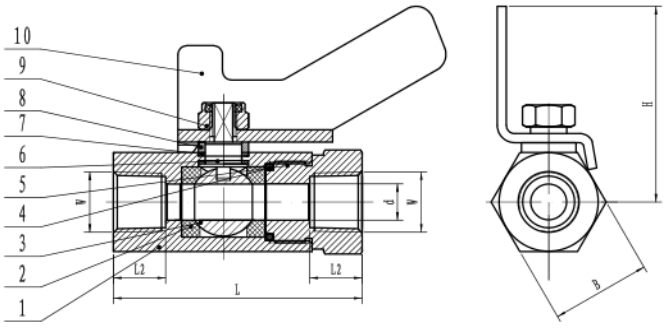
MALE PIPE X FEMALE PIPE

PART #	SIZE MIP X FIP	DIMENSIONS IN				WTG	BOX	
		D	L	B (HEX)	H			
46903SS	1/4"×1/4"	0.314"	2.45"	0.87"	1.5"	0.39	36	----
46904SS	3/8"×3/8"	0.314"	2.45"	0.87"	1.5"	0.36	36	----
46905SS	1/2"×1/2"	0.314"	2.81"	0.98"	1.5"	0.41	36	----

MALE PIPE X MALE PIPE

PART #	SIZE MIP X MIP	DIMENSIONS IN				WTG	BOX	
		D	L	B (HEX)	H			
46912SS	1/4"×1/4"	0.314"	2.59"	0.87"	1.5"	0.33	36	----
46913SS	3/8"×3/8"	0.314"	2.65"	0.87"	1.5"	0.34	36	----
46914SS	1/2"×1/2"	0.314"	2.47"	0.98"	1.5"	0.63	36	----





Part #	Part Name	Material
1	Body	S316
2	Seat	PTFE
3	Ball	S316
4	O-Ring	Viton
5	Cap	S316
6	Stem	S316
7	Stem Bottom Seal	PTFE
8	Stem Up Seal	PTFE

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

#304 STAINLESS STEEL

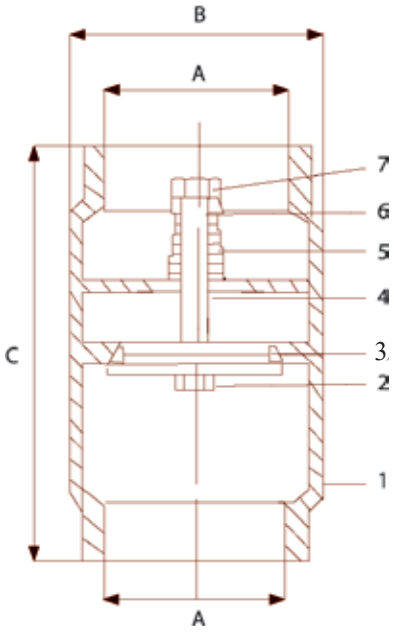
CHECK VALVE

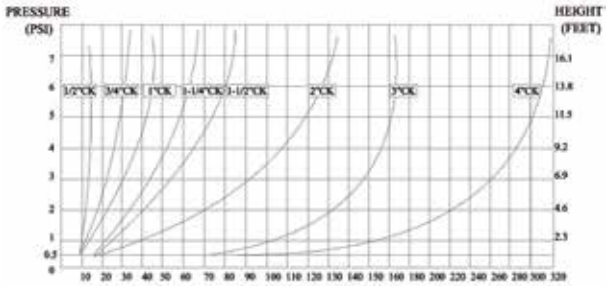
- No Lead.
- Water wells need a check valve installed above the pumps between lengths of drop pipes.
- Opens & Closes with flow of media.
- No cracking pressure.
- Working pressure unavailable.
- Made in Taiwan

DIMENSIONS (INCHES)

PART#	SIZE	A NPT	B	C	BOX/CASE	
949430	1/2"	1/2"	1.26	2.43	10/100	----
949431	3/4"	3/4"	1.50	2.72	10/80	----
949432	1"	1"	1.77	3.23	10/60	----

More sizes available on a special order basis.





FLOW RATE GALLONS PER MINUTE

	Part	Material
1	Body	S.S 304
2	Stopper	S.S 304
3	O-Ring	Viton
4	Washer	PE
5	Spring	S.S 304
6	Cap	S.S 304
7	Nut	S.S 304

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SS IN-LINE CHECK VALVES
VALVES

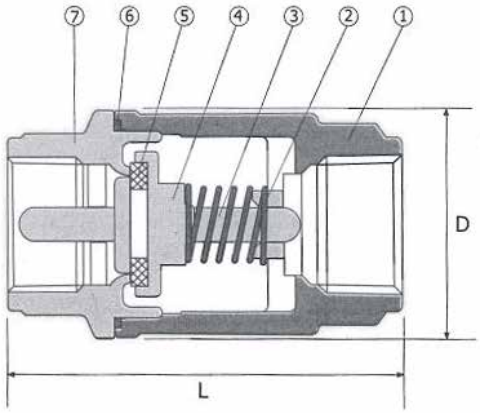
STAINLESS STEEL IN-LINE CHECK VALVE

High Capacity, Size 1/4"-2" 800 WOG

- Soft PTFE Seat for Bubble Tight Shutoff, Spring Loaded for Fast Seating Action
- Low Cracking Pressure 1/2 psi.
- Flow Profile Designed to Minimize Head Loss.
- Perfect Seating both at High and Low Pressure, Wide Temperature Range: +10° to 450°F.
- Corrosion Resistant-Excellent for use on Chemicals.
- ASTM A351-CF8M Investment Casting.
- Connection: FNPT x FNPT.
- 125WSP Saturated Steam.
- ANSI B1.20.1 Threads.
- Dual Guided Stem & Disc.
- Made in Italy

STAINLESS STEEL IN-LINE CHECK

PART#	SIZE	D	L	PSI	LBS	
949401	1/4"	1.15	2.25	800	0.36	----
949402	3/8"	1.16	2.25	800	0.34	----
949403	1/2"	1.35	2.31	800	0.40	----
949404	3/4"	1.81	2.87	800	0.85	----
949405	1"	2.13	3.50	800	1.30	----
949406	1-1/4"	2.46	4.18	800	2.50	----
949407	1-1/2"	2.88	4.93	800	3.40	----
949408	2"	3.56	6.00	800	6.0	----



	Part	Material	PCS
1	BODY	ASTM A351-CF8M	1
2	SPRING	SS316	1
3	CENTER GUIDE	ASTM A351-CF8M	1
4	DISC	ASTM A351-CF8M	1
5	SEAT	PTFE	1
6	GASKET	PTFE	1
7	END CAP	ASTM A351-CF8M	1

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SPRING CHECK VALVE

- Working Pressure: 1500PSI (PN100)
- Working Temperature: -10 -150°C
- Opening Pressure: 2~3PSI
- Suitable Medium: W.O.G.
- Threaded End: NPT
- Made in China

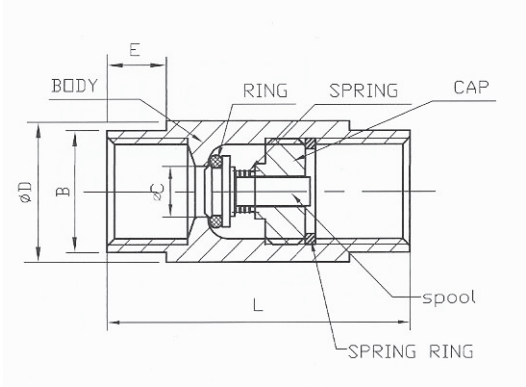
FEMALE PIPE x FEMALE PIPE

PART#	SIZE	L	C	D	B	E	LBS/ PC	CASE	
949451	1/4"	2.165	.217	.748	.699	.394	.19	200	----
949452	3/8"	2.165	.295	.866	.787	.394	.21	160	----
949453	1/2"	2.165	.413	1.063	.945	.472	.31	100	----
949454	3/4"	2.677	.591	1.417	1.26	.472	.71	60	----
949455	1"	3.268	.787	1.693	1.496	.591	1.14	36	----

MALE PIPE x FEMALE PIPE

PART#	SIZE	L	C	D	B	E	LBS/ PC	CASE	
949471	1/4"	2.165	.217	.748	.699	.394	.176	200	----
949472	3/8"	2.165	.295	.866	.787	.394	.22	160	----
949473	1/2"	2.165	.413	1.063	.945	.472	.27	100	----
949474	3/4"	2.677	.591	1.417	1.26	.472	.62	65	----
949475	1"	3.268	.787	1.693	1.496	.591	1.05	40	----

FLOWS MALE -> FEMALE



NO	Part	Material	QTY
1	BODY	316	1
2	RING	Rubber	1
3	SPRING	304	1
4	CAP	CF8M	1
5	SPOOL	304/316	1
6	SPRING RING	304	1

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

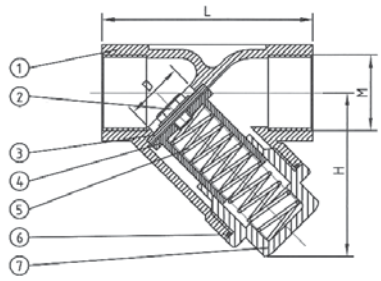
SS Y-SPRING/ BARREL CHECK VALVES

VALVES

Y-SPRING CHECK VALVE

- Working Pressure: 800PSI (PN55)
- Working Temperature: -10 -150°C
- Opening Pressure: 1.5PSI
- Suitable Medium: W.O.G.
- Made in China

PART#	SIZE	L	H	D	LBS/ PC	CASE	
949481	1/4"	2.559	1.661	.472	.44	70	----
949482	3/8"	2.559	1.661	.472	.51	70	----
949483	1/2"	2.559	1.634	.591	.51	100	----
949484	3/4"	3.15	2.067	.787	.93	80	----
949485	1"	3.543	2.657	.984	1.25	40	----
949486	1-1/4"	4.134	2.795	1.26	2.20	30	----
949487	1-1/2"	4.724	3.169	1.575	3.24	24	----
949488	2"	5.512	3.74	1.969	5.21	10	----

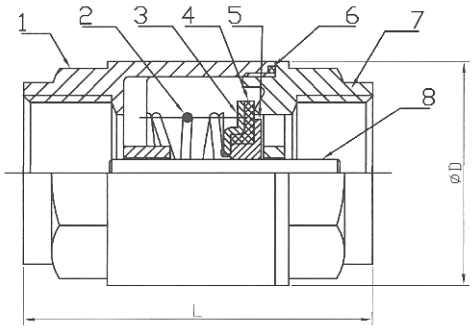


NO	Part	Material	QTY
1	BODY	CF8M/ CF8	1
2	BOLT	304	1
3	SEAT	Teflon	1
4	DISC	304	1
5	SPRING	304	1
6	GASKET	Teflon	1
7	CAP	CF8M/ CF8	1

2PC BARREL TYPE SPRING CHECK VALVE

- Working Pressure: 300PSI (PN20)
- Working Temperature: -10 -120°C
- Opening Pressure: 2PSI
- Suitable Medium: W.O.G.
- Threaded end: NPT
- Made in China

PART#	SIZE	L	D	LBS/ PC	CASE	
949441	1/4"	2.00	1.142	.27	100	----
949442	3/8"	2.00	1.142	.24	100	----
949443	1/2"	2.24	1.28	.36	100	----
949444	3/4"	2.44	1.594	.54	60	----
949445	1"	2.95	1.89	.88	30	----
949446	1-1/4"	3.23	2.362	1.39	18	----
949447	1-1/2"	3.46	2.756	1.81	25	----
949448	2"	3.94	3.425	2.86	14	----



NO	Part	Material	QTY
1	BODY	CF8M/ CF8	1
2	BOLT	304	1
3	SEAT	NBR	1
4	DISC	304	1
5	SPRING	316/ 304	1
6	GASKET	PTFE	1
7	CAP	CF8M/ CF8	1

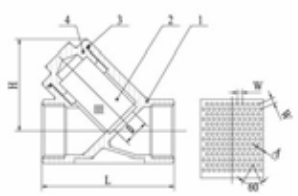
WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

316 SS MISCELLANEOUS VALVES

VALVES

#316 SS Y STRAINER

- Investment Castings for Body
- Pressure Rating: 800PSI (PN40)
- Threaded Ends: ANSI B2.1
- Material: CF8M (#316 SS)
- Pressure Test: API 598
- Made in China



• 40 Mesh screen

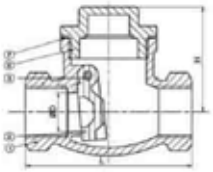
	Part	Material	QTY
1	BODY	CF8M	1
2	SCREEN	SS316	1
3	JOINT GASKET	PTFE	1
4	BONNET	CF8M	1

PART #	SIZE	D	L	H	W	ØA	LBS	
949521	1/4"	.38"	2.53	51	1.69	1	0.44	----
949522	3/8"	.48"	2.53	51	1.69	1	0.38	----
949523	1/2"	.59"	2.53	51	1.76	1	0.46	----
949524	3/4"	.79"	3.12	60	2.07	1	0.69	----
949525	1"	.98"	3.57	72	2.67	1	1.27	----
949526	1-1/4"	1.26"	4.17	77	2.9	1	1.74	----
949527	1-1/2"	1.57"	4.71	87	3.23	1	2.38	----
949528	2"	1.96"	5.49	102	3.88	1	3.57	----

316 SS SWING CHECK VALVE

- 200PSI(PN16)
- Threaded Ends: ANSI B2.1
- Material: CF8M (#316 SS)
- Pressure Test: API 598
- Made in China

	Part	Material	QTY
1	BODY	CF8M	1
2	DISC	CF8M	1
3	PIPE PLUG	CF8	1
4	SCREW	CF8	1
5	SCREW GASKET	PTFE	1
6	CAP	CF8M	1
7	CAP GASKET	PTFE	1



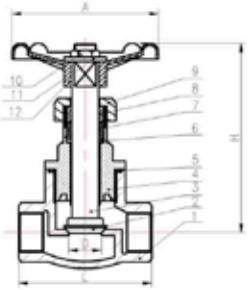
PART #	SIZE	D	L	W	LBS	
949353	1/2"	.59"	2.45	1.66	0.53	----
949354	3/4"	.79"	2.92	1.82	0.73	----
949355	1"	.98"	3.41	2.06	1.2	----
949356	1-1/4"	1.26"	3.93	2.32	1.79	----
949357	1-1/2"	1.57"	4.54	2.54	2.18	----
949358	2"	1.96"	5.3	2.78	3.03	----

CF8 = 304SS

316 SS GLOBE VALVES

- 200PSI(PN16)
- Threaded Ends: ANSI B2.1
- Material: CF8M (#316 SS)
- Pressure Test: API 598
- Made in China

	Part	Material	QTY
1	BODY	CF8M	1
2	DISC	CF8M	1
3	STEM	304SS	1
4	CAP	CF8M	1
5	SEAL	PTFE	1
6	GASKET	304SS	1
7	PACKING	PTFE	1
8	GASKET	CF8	1
9	GLAND	304SS	1
10	NUT	304SS	1
11	SPRING WASHER	CF8	1
12	HANDLE WHEEL	Steel	1

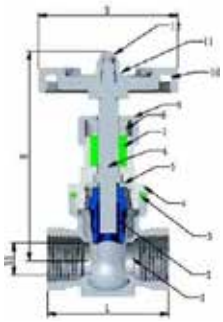


PART #	SIZE	L	LBS	
949303	1/2	2.64	0.89	----
949304	3/4	3.19	1.3	----
949305	1	3.46	1.72	----
949306	1-1/4	3.81	2.33	----
949307	1-1/2	4.25	3.11	----
949308	2	5.1	4.38	----

316 SS GATE VALVES

- 200PSI(PN16)
- Threaded Ends: ANSI B2.1
- Material: CF8M (#316 SS)
- Pressure Test: API 598
- Made in China

	Part	Material	QTY
1	BODY	CF8M	1
2	DISC	CF8M	1
3	SEAL	CF8M	1
4	CAP	CF8M	1
5	SEAL	PTFE	1
6	STEM	304SS	1
7	SEAL	PTFE	1
8	GLAND	304SS	1
9	NUT	304SS	1
	HANDLE WHEEL	Steel	1



PART #	SIZE	L	D	D1	H	LBS	
949253	1/2	2.07	2.54	0.55	3.37	0.78	----
949254	3/4	2.28	2.89	0.74	4.03	0.99	----
949255	1	2.42	2.89	0.95	4.46	1.25	----
949256	1-1/4	2.79	3.06	1.18	4.86	1.76	----
949257	1-1/2	2.92	3.79	1.49	5.53	2.59	----
949258	2	3.3	4.17	1.85	6.12	3.54	----

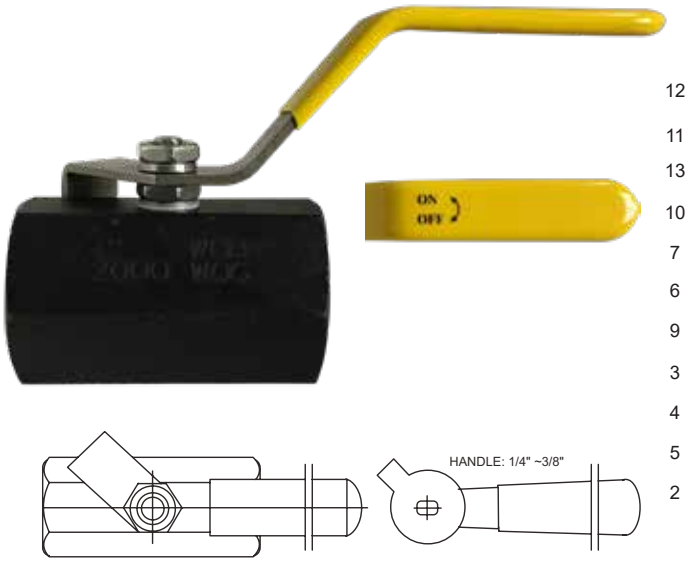
WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

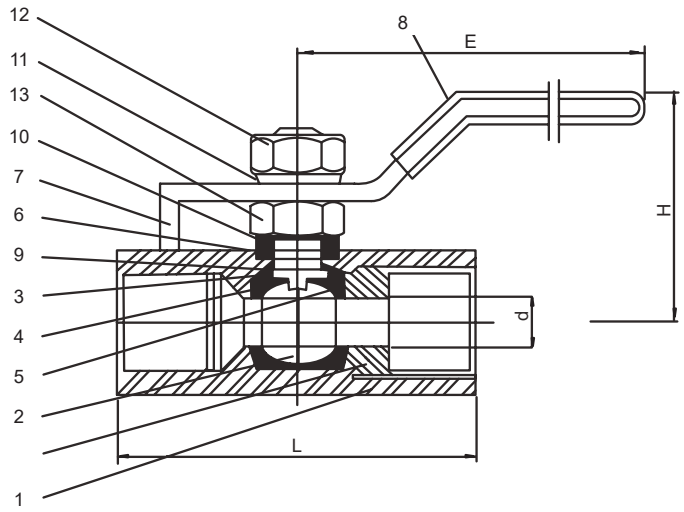
CARBON STEEL BALL VALVES
VALVES

STANDARD PORT CARBON STEEL BALL VALVE

- For chemical and industrial applications.
- Blow-out proof stem design.
- 100% air tested under water, at 100 psi, open and closed positions.
- Made in China
- Generic handles

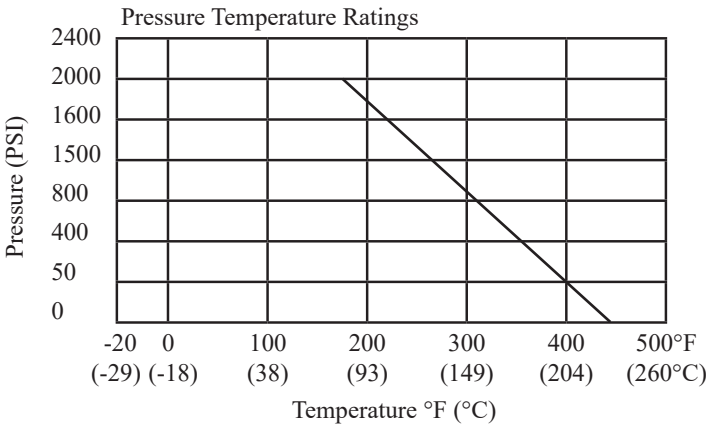
SPECIFICATIONS
- Working Pressure: 1/4" ~ 1" 2000 psi WOG,
  1-1/4" ~ 2" 1500 psi WOG,
- Temperature Range: -60^0 to 450^{0}F
- End types: Threaded
- 1 piece ball valve
- Reinforced PTFE seat





2000 PSI STANDARD PORT

PART #	SIZE	D	H	E	L	WTG	BOX/ CASE	
949121	1/4	.20	1.38	2.95	1.71	0.25	24/96	----
949122	3/8	.28	1.30	3.27	1.87	0.32	100/200	----
949123	1/2	.36	2.36	4.53	2.20	0.67	50/100	----
949124	3/4	.49	2.72	4.53	2.58	1.06	50/100	----
949125	1	.59	2.95	5.00	3.19	1.17	25/50	----
949126	1-1/4	.78	3.07	5.29	3.94	3.15	15/30	----
949127	1-1/2	0.98	3.39	5.29	3.94	2.15	15/30	----
949128	2	1.26	3.86	5.29	4.49	6.21	10/20	----



Item	Parts	Material
1	Body	ASTM A216 WCB
2	Ball	ASTM A351 CF8
3	Stem	304
4	Ball Seat	PTFE
5	Cap Seal	PTFE
6	Packing	PTFE
7	Handle	SS304
8	Handle Sleeve	Vinyl Grip
9	Thrust Washer	PTFE
10	Gland	SS304
11	Washer	SS304
12	Handle Nut	SS304
13	Stem Nut	SS304

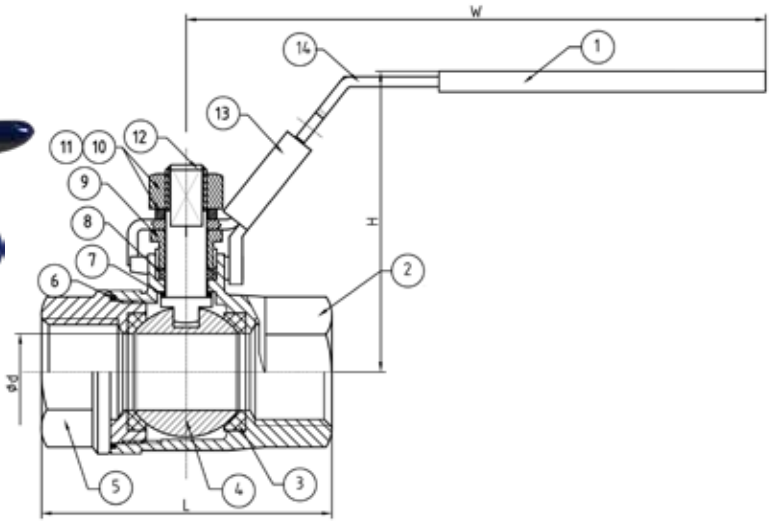
WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

2000 PSI CARBON STEEL 2PC FULL PORT BALL VALVE

• 2 PIECE

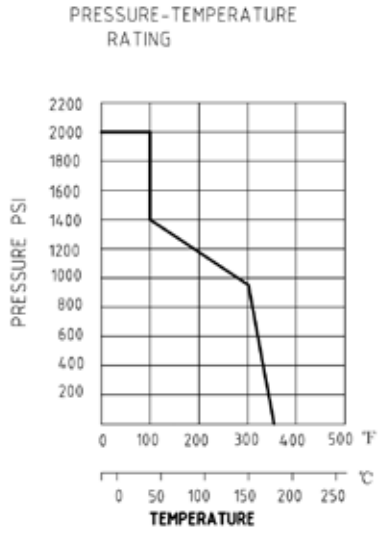
SPECIFICATIONS

- Working Pressure: 2000 PSI (138 Bar)
- Temperature Range: -10° C-150° C
- Suitable medium: WOG
- Threaded End conforms to ANSI B1.20.1
- Made in China
- Generic handle



2000 PSI FULL PORT

PART #	SIZE	D	L	H	W	WTG	BOX/ CASE	
949111	1/4	0.36	2.13	2.13	4.33	0.59	70	----
949112	3/8	0.50	2.13	2.17	4.33	0.59	70	----
949113	1/2	0.59	2.24	2.28	4.33	0.75	60	----
949114	3/4	0.79	2.76	2.40	4.33	1.17	50	----
949115	1	0.98	3.25	3.03	5.04	1.88	30	----
949116	1-1/4	1.26	3.58	3.19	5.04	2.45	20	----
949117	1-1/2	1.50	4.06	3.54	6.10	4.06	20	----
949118	2	1.97	4.90	4.25	6.10	2.43	7	----



Item	Parts	Material
1	Handle cover	Plastic
2	Body	CF8M
3	Ball seat	PTFE
4	Ball	CF8M
5	Cap	CF8M
6	Joint gasket	PTFE
7	Thrust washer	PTFE
8	Stem packing	PTFE
9	Gland nut	304
10	Spring washer	304
11	Stem nut	304
12	Stem	316
13	Lock device	304
14	Handle	304

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

HIGH PRESSURE FULL PORT 2-WAY VALVES

VALVES

FULL PORT Two-Way

BKH

PART #	THREAD	WORKING PRESSURE	
GE214NPT	1/4" NPT	7250 PSI	----
GE238NPT	3/8" NPT	7250 PSI	----
GE212NPT	1/2" NPT	7250 PSI	----
GE234NPT	3/4" NPT	5800 PSI	----
GE21NPT	1" NPT	5075 PSI	----
GE2114TNPT*	1-1/4" NPT	5000 PSI	----
GE2112TNPT*	1-1/2" NPT	5000 PSI	----

PART #	THREAD	WORKING PRESSURE	
GE204SAE	7/16-20 UNF	7250 PSI	----
GE206SAE	9/16-18 UNF	7250 PSI	----
GE208SAE	3/4-16 UNF	7250 PSI	----
GE212SAE	1-1/16-12 UNF	5800 PSI	----
GE216SAE	1-5/16-12 UNF	5000 PSI	----
GB220TSAE+	1-5/8-12 UNF	5000 PSI	----
GB224TSAE+	1-7/8-12 UNF	5000 PSI	----

*** Reduced Port**
+ 'L' flow pattern

Temp Rating = -22° - 212°F

Construction: Steel Body, Ball, Stem
Zinc Chromate Plate
Buna "O" Rings (Viton on request)
Delrin Ball Seats

FULL PORT Three-Way

BK3

PART #	THREAD	WORKING PRESSURE	
GE3L14NPT	1/4" NPT	5880 PSI	----
GE3L38NPT	3/8" NPT	5880 PSI	----
GE3L12NPT	1/2" NPT	5145 PSI	----
GE3L34NPT	3/4" NPT	5145 PSI	----
GE3L1NPT	1" NPT	5145 PSI	----
GE3L114TNPT	1 1/4" NPT	4500 PSI	----
GE3L112TNPT	1 1/2" NPT	4500 PSI	----

PART #	THREAD	WORKING PRESSURE	
GE3L04SAE	7/16-20 UNF	5880 PSI	----
GE3L06SAE	9/16-18 UNF	5880 PSI	----
GE3L08SAE	3/4-16 UNF	5145 PSI	----
GE3L12SAE	1-1/16-12 UNF	5145 PSI	----
GE3L16SAE	1-5/16-12 UNF	5145 PSI	----
GB3L20TSAE+	1-5/8-12 UNF	4500 PSI	----
GB3L24TSAE+	1-7/8-12 UNF	4500 PSI	----

+ 'L' flow pattern

Temp Rating = -22° - 212°F

Construction: Steel Body, Ball, Stem
Zinc Chromate Plate
Buna "O" Rings (Viton on request)
Delrin Ball Seats

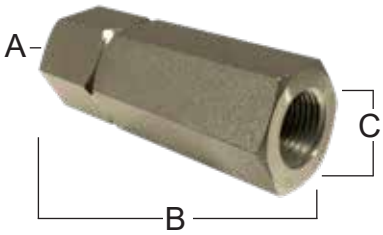
WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

HIGH PRESSURE CHECK VALVES

VALVES

CHECK VALVES - HARD SEAT CARBON STEEL CONSTRUCTION - 5lb Cracking Pressure

• w/ NPT threads



A (NPT Female both ends)

PART #	A SIZE	B INCHES	C INCH-ES	RATED FLOW GPM	PSI	
100025	1/4 NPT	2.44	.87	6	5,000	----
100035	3/8 NPT	2.87	.95	10	5,000	----
100045	1/2 NPT	3.76	1.26	18	5,000	----
100065	3/4 NPT	4.30	1.50	30	5,000	----
100085	1 NPT	4.74	1.83	36	5,000	----
1000105	1-1/4 NPT	5.56	2.40	50	3,000	----
1000125	1-1/2 NPT	5.56	2.56	60	3,000	----

CHECK VALVES - HARD SEAT CARBON STEEL CONSTRUCTION - 65lb Cracking Pressure

PART #	A SIZE	B INCHES	C INCHES	RATED FLOW GPM	PSI	
1000265	1/4NPT	2.45	.87	6	5,000	----
1000365	3/8NPT	2.91	.94	10	5,000	----
1000465	1/2NPT	3.74	1.18	18	5,000	----
1000665	3/4NPT	4.29	1.26	30	5,000	----
1000865	1NPT	5.00	1.81	36	5,000	----
10001065	1-1/4NPT	5.20	2.41	50	3,000	----
10001265	1-1/2NPT	5.20	2.56	60	3,000	----

CHECK VALVES - 5lb Cracking Pressure

• w/ SAE threads

PART #	A SIZE	B INCHES	C INCHES	RATED FLOW GPM	PSI	
100145	7/16-20 SAE	2.56	.87	6	5,000	----
100165	9/16-18 SAE	2.91	.94	10	5,000	----
100185	3/4-16 SAE	3.74	1.18	18	5,000	----
1001125	1-1/6-12 SAE	4.29	1.50	30	3,000	----
1001165	1-5/16-12 SAE	5.00	1.81	36	3,000	----
1001205	1-5/8-12 SAE	5.20	2.41	50	3,000	----
1001245	1-7/8-12 SAE	5.20	2.56	60	3,000	----

CHECK VALVES - 65lb Cracking Pressure

• w/ SAE threads

PART #	A SIZE	B INCHES	C INCHES	RATED FLOW GPM	PSI	
1001465	7/16-20 SAE	2.56	.87	6	5,000	----
1001665	9/16-18 SAE	2.91	.94	10	5,000	----
1001865	3/4-16 SAE	3.74	1.18	18	5,000	----
10011265	1-1/6-12 SAE	4.29	1.50	30	3,000	----
10011665	1-5/16-12 SAE	5.00	1.81	36	3,000	----
10012065	1-5/8-12 SAE	5.20	2.41	50	3,000	----
10012465	1-7/8-12 SAE	5.20	2.56	60	3,000	----

Rated Pressure: Sizes 2 thru 8 - 5000 psi / Sizes 10 thru 24 - 3000 psi

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

PVC VALVES
VALVES

WHITE PVC BALL VALVES

- Quarter turn
- Solvent ends comply with ASTM D2466
- Designed for use in residential, commercial & industrial system as well as waste water, chemical, agricultural applications, marine, food processing, swimming pools.
- Corrosion resistant
- EPDM seal
- FULL PORT
- EPDM O-ring
- Fits both Sch. 40 & 80 pipe
- Rated for 150 PSI at 73°F
- Threaded ends comply with ANSI B1.20.1

MOLDED IN PLACE - WHITE PIPE THREADS

PART#	SIZE	CASE	
940284	1/2"	100	----
940285	3/4"	100	----
940286	1"	100	----
940287	1-1/4"	100	----
940288	1-1/2"	48	----
940289	2"	24	----
940291	3"	12	----
940292	4"	6	----

WHITE SOCKET - SLIP X SLIP

PART #	SIZE	CASE	
940294	1/2"	100	----
940295	3/4"	100	----
940296	1"	100	----
940297	1-1/4"	100	----
940298	1-1/2"	48	----
940299	2"	24	----
940300	2-1/2"	12	----
940301	3"	12	----
940302	4"	6	----

I CAN'T CHANGE THE DIRECTION OF THE WIND, BUT I CAN ADJUST MY SAILS TO ALWAYS REACH MY DESTINATION.

- JIMMY DEAN

GREY PVC BALL VALVES

FEATURES

- Sizes range from 1/2" to 4"
- Excellent flow characteristics
- Leak-tight shut-off
- EPPM O-Ring
- SCH 80
- Test pressure: 225 psi @ 73°F
- Working Pressure: 150 psi @ 73°F

FIP X FIP THREADED BALL VALVE

PART #	SIZE	CASE	
899000	1/2"	100	----
899001	3/4"	100	----
899002	1"	100	----
899003	1-1/4"	100	----
899004	1-1/2"	48	----
899005	2"	24	----

SLIP X SLIP BALL VALVE

PART #	SIZE	CASE	
899050	1/2"	100	----
899051	3/4"	100	----
899052	1"	100	----
899053	1-1/4"	100	----
899054	1-1/2"	48	----
899055	2"	24	----

CPVC BALL VALVE

PART #	SIZE	
940281	1/2"	----
940282	3/4"	----

WARNING: This product can expose you to chemicals, including Chloroethane, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

INLINE PLASTIC SPRING CHECK VALVE

Socket x Socket

- 200 PSI working pressure @ 77°F .5 PSI to open.

PART#	SIZE	
940325	1/2"	----
940326	3/4"	----
940327	1"	----
940328	1-1/4"	----
940329	1-1/2"	----
940330	2"	----

INLINE PLASTIC SPRING CHECK VALVE FEMALE THREADED ENDS

- 200 PSI working pressure @ 77°F .5 PSI to open.

PART#	SIZE	
940331	1/2"	----
940332	3/4"	----
940333	1"	----
940334	1-1/4"	----
940335	1-1/2"	----
940336	2"	----

PLASTIC DRUM FAUCETS

- Pipe threads to ANSI B1.20.1
- Hose threads to ANSI B

The FLO-RITE faucet has been engineered to meet the demand for greater chemical resistance, using linear polyethylene for the stem.

"FLO-RITE" DRUM FAUCET

PART #	SIZE	
46277	3/4"	----

DRUM & BARREL FAUCET VALVE

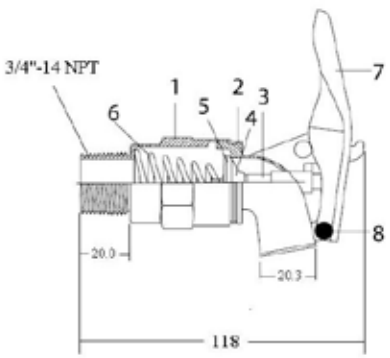
- Die cast body w/ nylon seat and steel spring.
- For use with all petroleum products except trichlorethylene.

G261N

Not suitable for potable water

SELF-CLOSING DRUM & BARREL FAUCET

PART #	SIZE	
46270	3/4"	----



Part #	Part Name	Material
1	Body	Zinc
2	Bonnet	Zinc
3	Stem	Steel
4	Disc	Plastic
5	Seal	Rubber
6	Spring	Zinc plated steel
7	Handle	Aluminum
8	Rivet	Aluminum

WARNING: This product can expose you to chemicals, including Chloroethane, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

DUCTILE IRON VALVES AND ACCESSORIES

WAFER STYLE - LEVER OPERATED

NICKLE PLATED DUCTILE IRON DISC & SS DISC

WAFER STYLE GEAR OPERATED

NICKLE PLATED DUCTILE IRON DISC & SS DISC

BUTTERFLY ACCESSORIES

WAFER STYLE DOUBLE DOOR CHECK VALVE

AWWA C508 OUTSIDE LEVER

AND WEIGHT CHECK VALVES

UL/FM FLANGED SWING CHECK VALVE

SWING CHECK FLANGED

AWWA C515-15 GATE VALVES

FLANGED OS & Y RESILIENT WEDGE GATE VALVE

NRS RESILENT WEDGE GATE VALVES, FLANGED, MECHANICAL JOINT & FLANGE BY MECHANICAL JOINT

DUCTILE IRON THREADED FLAT FACED COMPANAION FLANGES

LF WATER METER FLANGES, FLANGE KITS AND LF METER COUPLINGS

LEVER - WAFER

Small in size and light in weight, easy to install. It can be mounted wherever needed, quick 90° on-off operation. Disc has two-way bearing, perfect seal without leakage under the pressure test. Flow curve tending to straight-line. Strong wash and brush resistence and can fit to bad working condition. Center plate structure, small torque of open and close. Disc & stem are fastened by pin, more stable.

STANDARD:
1.DESIGN CODE :AP1609 Class A
2.FACE TO FACE : AP1609
3.END STANDARD:ANSI B16.5 125LB/150LB
4.INSPECTION & TEST:API 598

TOP FLANGE DIMENSIONS	
SIZE	4-Φd2
1.5"-3"	4-0.276
4"-6"	4-0.39
8"-14"	4-0.47

PART#	DUCTILE IRON DISC/ BUNA SEAT/ LEVER	CASE	WEIGHT	
9650L2	2"	200	7.3	----
9650L2.5	2-1/2"	190	8.4	----
9650L3	3"	180	9.8	----
9650L4	4"	150	12.1	----
9650L5	5"	110	16.5	----
9650L6	6"	90	16.9	----
9650L8	8"	50	30.3	----
9650L10	10"	35	44.5	----
9650L12	12"	24	51.6	----

SS DISC/ EPDM SEAT/ LEVER

PART#	SIZE	
9650L2SE	2"	----
9650L3SE	3"	----
9650L4SE	4"	----
9650L5SE	5"	----
9650L6SE	6"	----
9650L8SE	8"	----
9650L10SE	10"	----
9650L12SE	12"	----

GEAR - WAFER

STANDARD:
1.DESIGN CODE :AP1609 Class A
2.FACE TO FACE : AP1609
3.END STANDARD:ANSI B16.5 125LB/150LB
4.INSPECTION & TEST:API 598

TOP FLANGE DIMENSIONS

SIZE	ISO5211	ΦK	ΦE	4-ΦD2
1.5"-3"	F05	2.56	1.97	4-0.276
4"-6"	F07	3.54	2.76	4-0.39
8"-14"	F10	4.92	4.02	4-0.47

PART#	WAFER/ DUCTILE IRON DISC/ BUNA SEAT/ GEAR	CASE	WEIGHT	
9650G2	2"	200	7.3	----
9650G2.5	2-1/2"	190	8.4	----
9650G3	3"	180	9.8	----
9650G4	4"	150	12.1	----
9650G6	6"	90	16.9	
9650G8	8"	50	30.3	----
9650G10	10"	35	44.5	----
9650G12	12"	24	51.6	----

WAFER/ SS DISC/ EPDM SEAT/ GEAR

PART#	SIZE	
9650G2SE	2"	----
9650G2.5SE	2-1/2"	----
9650G3SE	3"	----
9650G4SE	4"	----
9650G6SE	6"	----
9650G8SE	8"	----
9650G10SE	10"	----
9650G12SE	12"	----

BUTTERFLY VALVES - LUG
VALVES

LEVER - LUG

Small in size and light in weight, easy to install, can be mounted wherever needed. Lug type butterfly valve can be used at the end of the pipeline. Lug type butterfly valve has threaded metal inserts installed in the valve's bolt holes. Inserts are threaded on both ends, which allows this lug style valve to be installed into a system using two sets of bolts and no nuts for each hole. Valve is installed between two flanges using a separate set of bolts for each side of the flange. This setup permits either side of the piping system to be disconnected without disturbing the other side.

PART#	DUCTILE IRON DISC/ BUNA SEAT/ LEVER	CASE	WEIGHT	
9660L2	2"	200	7.3	----
9660L2.5	2-1/2"	190	8.4	----
9660L3	3"	180	9.8	----
9660L4	4"	150	12.1	----
9660L5	5"	110	16.5	----
9660L6	6"	90	16.9	----
9660L8	8"	50	30.3	----
9660L10	10"	35	44.5	----
9660L12	12"	24	51.6	----

SS DISC/ EPDM SEAT/ LEVER

PART#	SIZE	
9660L2SE	2"	----
9660L3SE	3"	----
9660L4SE	4"	----
9660L5SE	5"	----
9660L6SE	6"	----
9660L8SE	8"	----
9660L10SE	10"	----
9660L12SE	12"	----

GEAR - LUG

PART#	DUCTILE IRON DISC/ BUNA SEAT/ GEAR	CASE	WEIGHT	
9660G2	2"	200	7.3	----
9660G2.5	2-1/2"	190	8.4	----
9660G3	3"	180	9.8	----
9660G4	4"	150	12.1	----
9660G6	6"	90	16.9	----
9660G8	8"	50	30.3	----
9660G10	10"	35	44.5	----
9660G12	12"	24	51.6	----

SS DISC/ EPDM SEAT/ GEAR

PART#	SIZE	
9660G2SE	2"	----
9660G2.5SE	2-1/2"	----
9660G3SE	3"	----
9660G4SE	4"	----
9660G6SE	6"	----
9660G8SE	8"	----
9660G10SE	10"	----
9660G12SE	12"	----

BUTTERFLY ACCESSORIES
VALVES

STEM EXTENSIONS

- FOR BOLTS AND NUTS
- BLACK COLOR

PART#	FOR VALVE SIZES ""	LENGTH	
9650EX2324	2-3	24 LONG	----
9650EX2336	2-3	36 LONG	----
9650EX2348	2-3	48 LONG	----
9650EX2360	2-3	60 LONG	----
9650EX2372	2-3	72 LONG	----
9650EX4624	4-6	24 LONG	----
9650EX4636	4-6	36 LONG	----
9650EX4648	4-6	48 LONG	----
9650EX4660	4-6	60 LONG	----
9650EX4672	4-6	72 LONG	----
9650EX1224	8-12	24 LONG	----
9650EX1236	8-12	36 LONG	----
9650EX1248	8-12	48 LONG	----
9650EX1260	8-12	60 LONG	----
9650EX1272	8-12	72 LONG	----

LEVER REPLACEMENT

PART#	REPLACEMENT LEVER HANDLE FOR	
9650L23	2-3 9650BFV	----
9650L46	4-6 9650 BFV	----
9650L812	8-10 9650 B	----
9650L120	12 9650 BFV	----

GEAR WHEEL HANDLE

PART#	REPLACEMENT WHEEL HANDLE FOR	
9650WH23	2-3" 9650 BFV	----
9650WH46	4-6" 9650 BFV	----
9650WH812	8-12" BFV	----

ROLL PIN

PART#	REPLACEMENT ROLL PIN FOR	
9650RP23	2-3 9650 BFV	----
9650RP46	4-6 9650 BFV	----
9650RP12	8-12 9650 BFV	----

INDEX PLATE

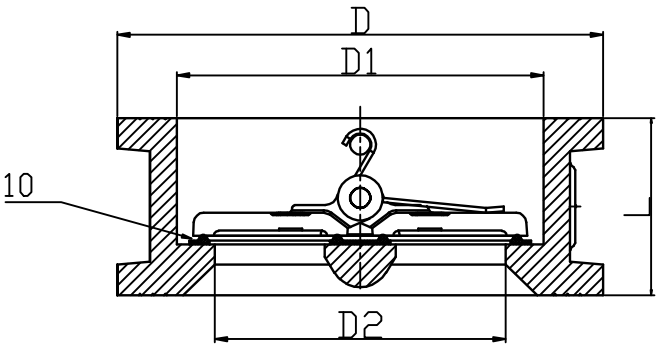
PART#	REPLACEMENT INDEX PLATE	
9650IP23	2-3" 9650BFV	----
9650IP46	4-6" 9650BFV	----
9650IP812	8-12" 9650 B	----

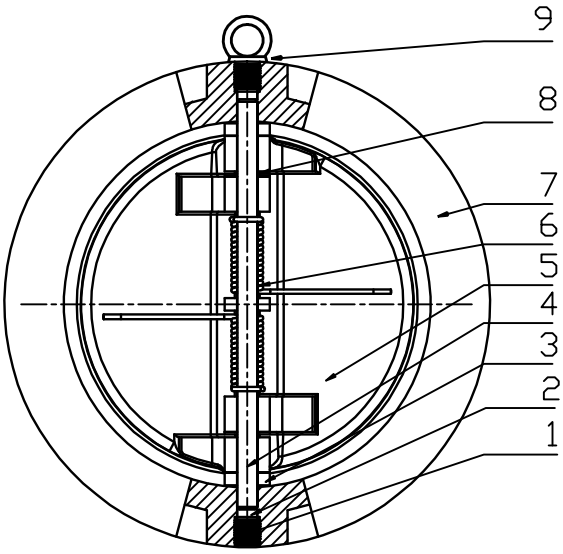
GEAR REPLACEMENT

PART#	REPLACEMENT GEAR OPERATOR	
9650G23	2-3 9650 BFV	----
9650G46	4-6 9650 BFV	----
9650G812	8-10 9650BFV	----
9650G120	12 - 9650BFV	----

DUCTILE IRON CHECK VALVES
VALVES

DOUBLE DOOR WAFER CHECK VALVE





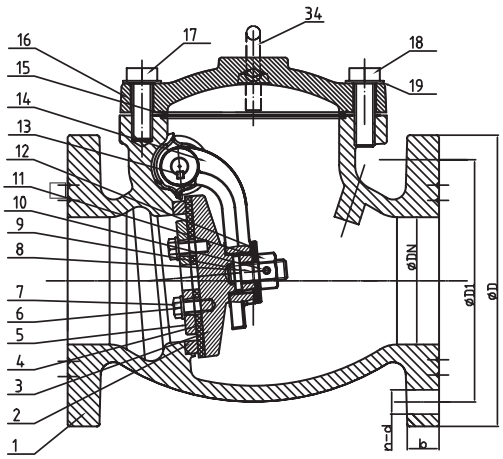
Part	Part	MATERIAL
1	Countersunk Hex Head Screws	Carbon Steel ASTM A325
2	Stal Ring	EPDM
3	Gasket	PTFE
4	Shaft	Stainless Steal SS420
5	Disc	Aluminum Brance C954
6	Spring	Stainless Steal SS304
7	Body	Ductile Lron ASTM 65-45-12

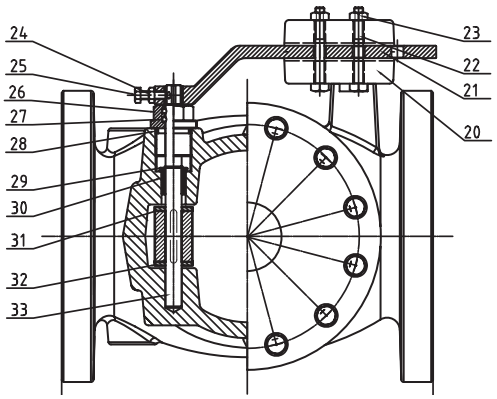
MAIN DIMENSIONS					
DN		Dimensions (mm)			
inch	mm	L	D	D1	D2
2	50	54	102	64	46
21/2'	65	54	121	78	60
3	80	57	134	94	70
4	100	64	162	117	84
5	125	70	192	145	115
6	150	76	218	170	134
8	200	95	273	224	184
10	250	108	335	265	220
12	300	143	407	310	260
14	350	184	442	360	302
16	400	191	511	410	350

PART#	SIZE	CASE	WEIGHT	
963002	2	50	4	----
963025	2-1/2	40	5	----
963003	3	20	8	----
963004	4	20	13	----
963005	5	20	16	----
963006	6	10	20	----
963008	8	10	38	----
963010	10	10	38	----
963012	12	5	92	----
963014	14	4	121	----
963016	16	4	165	----

CHECK VALVE W/OUTSIDE L/W

AWWA C508 CHECK VALVE W/OUTSIDE L/W





Part	Part	MATERIAL
1	Valve Body	Ductile iron 65-45-12
2	Seat	ASTM B62 C83600
3	Disc	Ductile iron 65-45-12
4	Disc Seat Ring	NBR
5	Retainer Washer	Ductile iron 65-45-12
6	Washer	AISI 304
7	Bolt	AISI 304
8	Stud	ASTM B62 C83600
9	Roll Pin	AISI 304
10	Roll Pin	AISI 304
11	Nut	ASTM B62 C83600
12	Washer	ASTM B62 C83600
13	Flat Key	AISI 304
14	Clapper Arm	Ductile iron 65-45-12
15	O-Ring	NBR
16	Bonnet	Ductile iron 65-45-12
17	Bolt	AISI 316
18	Bolt	AISI 316
19	Washer	AISI 316
20	Weight	Ductite iron,65-45-12
21	Arm	Cast steel WCB
22	Bolt	AISI 316
23	Nut	AISI 316
24	Nut	AISI 316
25	Bolt	AISI 316
26	Seat Nut	ASTM B62 C83600
27	O-Ring	NBR
28	Gasket	PTFE
29	Circlip	Carbon steel
30	Shaft sleeve gland	ASTM B62 CB3600

MAIN DIMENSIONS (mm)

inch	DN	L	D	D1	b	n-d	H
3"	80	241	200	152.5	19	4-19.1	173
4"	100	292	229	190.5	24	8-19.1	175.5
6"	150	356	285	241.5	25.5	8-22.2	237.5
8"	200	495	343	298.5	28.5	8-22.2	272.5
10"	250	622	406	362	30.5	12-25.4	326
12"	300	698	483	432	32	12-25.4	358

UL/FM FLANGED SWING CHECK VALVE

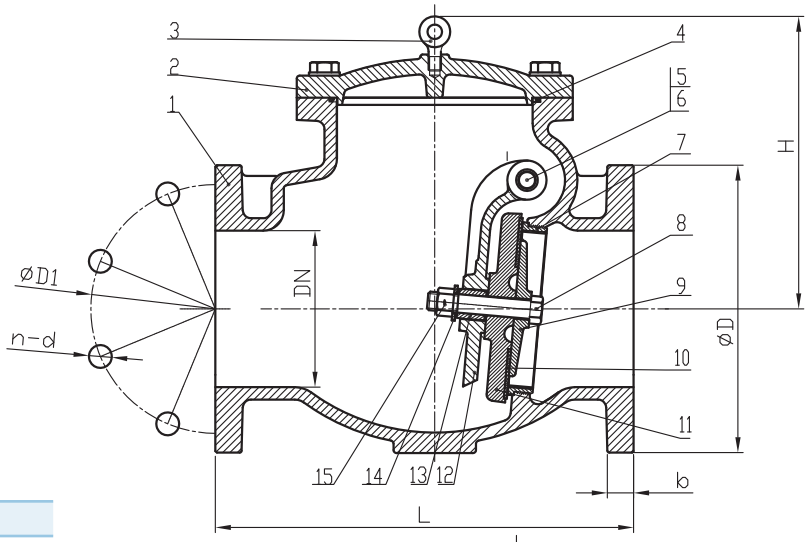
PART#	SIZE	CASE	WEIGHT	
96203LW	3	16	57	----
96204LW	4	12	84	----
96206LW	6	6	156	----
96208LW	8	4	294	----
962010LW	10	2	466	----
962012LW	12	2	627	----

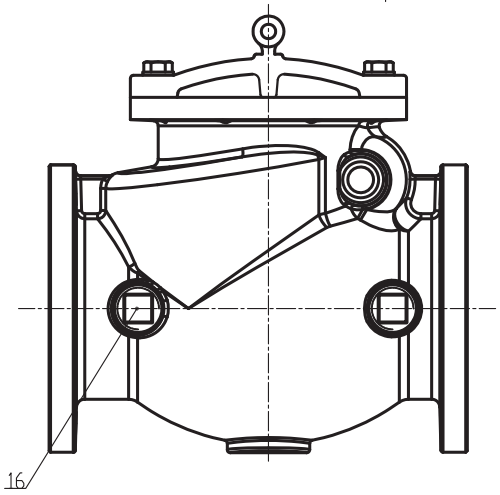
PART#	SIZE	CASE	WEIGHT	
96203UL	3	36	50	----
96204UL	4	36	77	----
96206UL	6	14	140	----
96208UL	8	4	266	----
962010UL	10	1	398	----
962012UL	12	1	533	----

DUCTILE IRON CHECK VALVES

VALVES

AWWA C508 SWING CHECK VALVE FLANGED





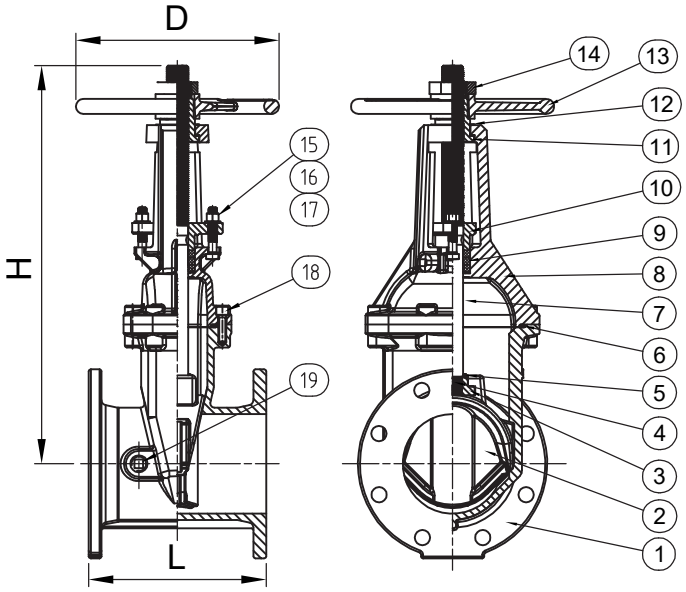
Part	Part	MATERIAL
1	Valve Body	Ductile Iron 65-45-12
2	Bonnet	Ductile Iron 65-45-12
3	Sling Ring	Carbon Steel Zinc Plated
4	O Ring	NBR
5	Hinge Pin	Stainless Steel 304
6	Hinge bushing	Brass ASTM B36
7	Seat Ring	Bronze ASTM B62
8	Disc Seat Bolts	Stainless Steel 304
9	Retainer Washer	Bronze ASTM B62
10	Disc Seat Ring	EPDM
11	Disc	Ductile Iron 65-45-12
12	Ctapper Arm	Ductile Iron 65-45-12
13	Stud Bushing	Bronze ASTM B36
14	O Ring	NBR
15	Nuts	Stainless Steel 304
16	Plug	Tin bronze

MAIN DIMENSIONS

DN		PSI	Dimensions (mm)					
inch	mm		L	D	D1	b	n-d	H
3"	80	300	278	191	152.5	19	4-19.1	160
4"	100	300	330	229	190.5	24	8-19.1	218
6"	150	300	406	279	241.5	25.5	8-22.2	290
8"	200	300	495	343	298.5	28.5	8-22.2	330
10"	250	300	622	406	362	30.5	12-25.4	350
12"	300	300	660	483	432	32	12-25.4	376

PART#	SIZE	CASE	WEIGHT	
962003	3	16	57	----
962004	4	12	84	----
962006	6	6	156	----
962008	8	4	294	----
962010	10	2	466	----
962012	12	2	627	----

OS&Y RESILIENT SEATED GATE VALVE
FLANGE ENDS, 300PSI



PART#	SIZE	CASE	WEIGHT	
9610F25	2-1/2"	25	46.2	----
9610F3	3"	16	62.7	----
9610F4	4"	16	74.8	----
9610F6	6"	9	103.9	----
9610F8	8"	6	190.9	----
9610F10	10"	2	291.8	----
9610F12	12"	2	409.8	----

NO TAP

PART#	SIZE	CASE	WEIGHT	
9610NYCF25	2-1/2"	25	46.2	----
9610NYCF3	3"	32	62.7	----
9610NYCF4	4"	64	74.8	----
9610NYCF6	6"	54	103.9	----
9610NYCF8	8"	36	190.9	----
9610NYCF10	10"	12	291.8	----
9610NYCF12	12"	12	409.8	----

COMPLIES WITH NEW YORK AND CHICAGO REQUIREMENTS.

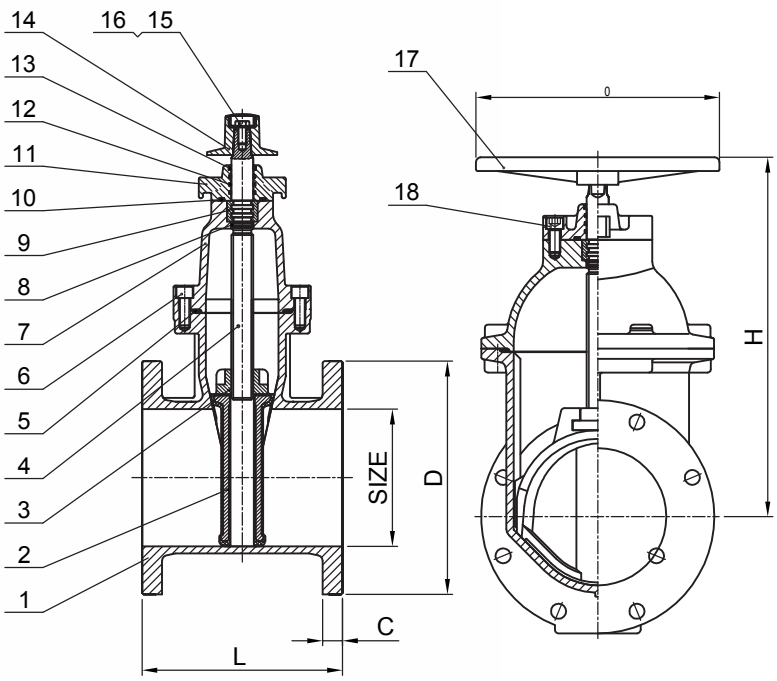
	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Ductile Iron	A536 65-45-12
2	Wedge	Ductile Iron, EPDM Encapsulated	A536 65-45-12
3	Wedge Nut	Stainless Steel	A276 Type 304SS
4	Pin	Stainless Steel	A276 Type 420SS
5	O-Ring	Rubber	D2000 NBR
6	Gasket	Rubber	D2000 NBR
7	Stem	Stainless Steel	A276 Type 304SS
8	Bonnet	Ductile Iron	A536 65-45-12
9	Packing	Graphite	
10	Gland	Ductile Iron	A536 65-45-12
11	Yoke Nut	Bronze	B148 C95200
12	Washer	Brass	
13	Handwheel	Ductile Iron	A536 65-45-12
14	Handwheel Nut	Ductile Iron	A536 65-45-12
15	Bolts	Stainless Steel	A276 Type 304SS
16	Nuts	Stainless Steel	A276 Type 316SS
17	Washers	Stainless Steel	A276 Type 304SS

MAIN DIMENSIONS

Size	2.5"	3"	4"	6"	8"	10"	12"
L	7-1/2"	8"	9"	10-1/2"	11-1/2"	13"	14"
H (Open)	16-5/8"	18-7/8"	21-5/8"	29-1/8"	36-5/8"	44-1/2"	52"
H (Close)	13-3/4"	15-3/4"	17-3/4"	23-1/4"	28-3/4"	34-3/4"	40-1/6"
D	7-1/4"	10"	10"	12"	14"	17-1/2"	17-1/2"

DUCTILE IRON GATE VALVES
VALVES

NRS RESILIENT SEATED GATE VALVE
FLANGE ENDS, 300PSI



PART#	SIZE	CASE	WEIGHT	
9600FL25	2-1/2"	25	37.6	----
9600FL3	3"	16	54.2	----
9600FL4	4"	16	65.5	----
9600FL6	6"	9	107.5	----
9600FL8	8"	6	181.9	----
9600FL10	10"	2	297.4	----
9600FL12	12"	2	431.4	----

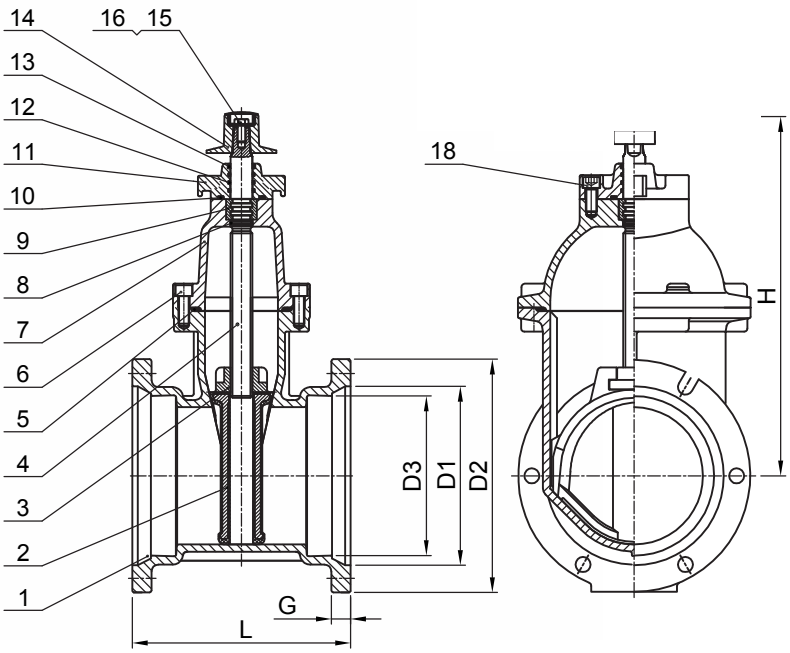
CHANGE YOUR THOUGHTS AND YOU CHANGE YOUR WORLD.

~ NORMAN VINCENT PEALE

Item	Descript.	Material	ASTM Spec.
1	Body	Ductile Iron	A536 65-45-12
2	Wedge	Ductile Iron, EPDM Encapsu-lated	A536 65-45-12
3	Wedge Nut	Bronze	B148 C95200
4	Stem	Stainless Steel	A276 Type 304SS
5	Gasket	Rubber	D2000 NBR
6	Bolts	Stainless Steel	A276 Type 304SS
7	Bonnet	Ductile Iron	A536 65-45-12
8	O-Ring	Rubber	D2000 NBR
9	Thrust Collar	Bronze	B148 C95200
10	O-Ring	Rubber	D2000 NBR
11	Gland	Ductile Iron	A536 65-45-12
12	O-Ring	Rubber	D2000 NBR
13	Dust Ring	Rubber	D2000 NBR

MAIN DIMENSIONS							
Size	2.5"	3"	4"	6"	8"	10"	12"
L	7-1/2"	8.0"	9.0"	10-1/2"	11-1/2"	13.0"	14.0"

AWWA C515-15 NRS RESILIENT SEATED GATE VALVE
MJ × MJ ENDS, 300PSI



PART#	SIZE	WEIGHT	CASE	
9600MJ3	3"	54.2	16	----
9600MJ4	4"	65.5	16	----
9600MJ6	6"	107.5	9	----
9600MJ8	8"	181.9	6	----
9600MJ10	10"	297.4	2	----
9600MJ12	12"	431.4	2	----

*STANDARD CONFIG IS OP NUT ONLY

If you always put limit on everything you do, physical or anything else. It will spread into your work and into your life. There are no limits. There are only plateaus, and you must not stay there, you must go beyond them.

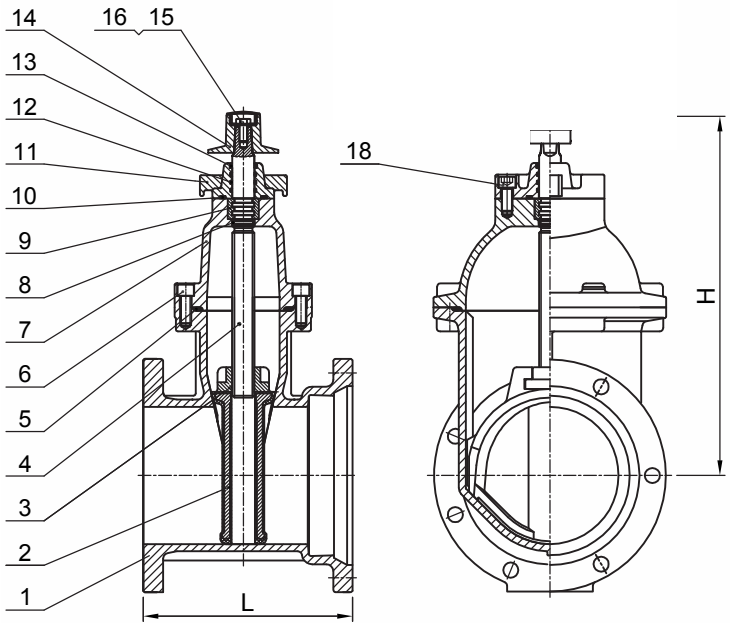
- Bruce Lee

Item	Descrip.	Material	ASTM Spec.
1	Body	Ductile Iron	A536 65-45-12
2	Wedge	Ductile Iron, EPDM Encapsu-lated	A536 65-45-12
3	Wedge Nut	Bronze	B148 C95200
4	Stem	Stainless Steel	A276 Type 304SS
5	Gasket	Rubber	D2000 NBR
6	Bolts	Stainless Steel	A276 Type 304SS
7	Bonnet	Ductile Iron	A536 65-45-12
8	O-Ring	Rubber	D2000 NBR
9	Thrust Collar	Bronze	B148 C95200
10	O-Ring	Rubber	D2000 NBR
11	Gland	Ductile Iron	A536 65-45-12
12	O-Ring	Rubber	D2000 NBR
13	Dust Ring	Rubber	D2000 NBR

MAIN DIMENSIONS						
Size	3"	4"	6"	8"	10"	12"
L	11.5"	12.5"	14.8"	15.0"	13.0"	14.0"
H	16.4"	20.7"	24.5"	28.0"	24.5"	28.0"

DUCTILE IRON GATE VALVES
VALVES

NRS RESILIENT SEATED GATE VALVE
FL × MJ ENDS, 300PSI



PART#	SIZE	WEIGHT	CASE	
9600FJ3	3"	54.3	16	----
9600FJ4	4"	65.5	16	----
9600FJ6	6"	107.5	9	----
9600FJ8	8"	181.9	6	----
9600FJ10	10"	297.4	2	----
9600FJ12	12"	431.4	2	----

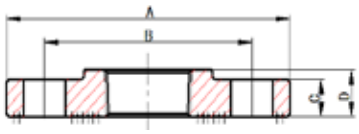
*STANDARD CONFIG IS OP NUT ONLY

Item	Description	Material	ASTM Spec.
1	Body	Ductile Iron	A536 65-45-12
2	Wedge	Ductile Iron, EPDM Encapsulated	A536 65-45-12
3	Wedge Nut	Bronze	B148 C95200
4	Stem	Stainless Steel	A276 Type 304SS
5	Gasket	Rubber	D2000 NBR
6	Bolts	Stainless Steel	A276 Type 304SS
7	Bonnet	Ductile Iron	A536 65-45-12
8	O-Ring	Rubber	D2000 NBR
9	Thrust Collar	Bronze	B148 C95200
10	O-Ring	Rubber	D2000 NBR
11	Gland	Ductile Iron	A536 65-45-12
12	O-Ring	Rubber	D2000 NBR
13	Dust Ring	Rubber	D2000 NBR

MAIN DIMENSIONS

Size	3"	4"	6"	8"	10"	12"	10"	12"
L	8.8"	9.5"	11.0"	12.0"	14.0"	14.5"	13"	14"
H	11.0"	11.8"	16.4"	20.7"	24.5"	28.0"	44-1/2"	52"
D	10.0"	10.0"	12.0"	14.0"	16.0"	16.0"	34-3/4"	40-1/6"

DUCTILE IRON THREADED COMPANION FLANGES



*DIMENSIONS, FACED AND DRILLED IN ACCORDANCE WITH ASME B16.42/AWWA C110
*COATING: AVAILABLE IN BLACK ELECTROPHORETIC COATING AND HOT DIP GALVANIZED
*HOT-DIPPED GALVANIZED CONFORM TO ASTM A153; COMPANION FLANGE THREADS CONFORM TO ASME B1.20.1
*APPLICATION: WATERWORKS, PUMP, IRRIGATION

BLACK

PART # (BLACK)	DESCRIPTION (THREADED)	SIZE (INCH)	A (INCH)	B (INCH)	C (INCH)	D (INCH)	BOLT HOLE SIZE	NO. OF HOLES	UNIT WEIGHT (KG)	
108062	1 150	1"	4.25	3.12	0.44	0.75	ϕ0.625	4	0.8347	----
108063	1 1/4 150	1-1/4"	4.62	3.5	0.5	0.81	ϕ0.625	4	1.0797	----
108064	1 1/2 150	1-1/2"	5	3.88	0.56	0.88	ϕ0.625	4	1.3217	----
108065	2 150	2"	6	4.75	0.62	1	ϕ0.75	4	2.1457	----
108066	2 1/2 150	2-1/2"	7	5.5	0.69	1.12	ϕ0.75	4	3.4182	----
108067	3 150	3"	7.5	6	0.75	1.19	ϕ0.75	4	3.9051	----
108069	4 150	4"	9	7.5	0.94	1.31	ϕ0.75	8	5.5254	----
108071	6 150	6"	11	9.5	1	1.56	ϕ0.875	8	7.5328	----
108072	8 150	8"	13.5	11.75	1.12	1.75	ϕ0.875	8	13.0201	----
108073	10 150	10"	16	14.25	1.19	1.94	ϕ1	12	22.854	----
108074	12 150	12"	19	17	1.25	2.19	ϕ1	12	26.5451	----

GALVANIZED

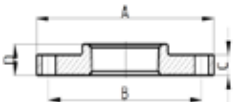
108025	2 150	2"	6	4.75	0.62	1	ϕ0.75	4	2.1457	----
108026	2 1/2 150	2-1/2"	7	5.5	0.69	1.12	ϕ0.75	4	3.4182	----
108027	3 150	3"	7.5	6	0.75	1.19	ϕ0.75	4	3.9051	----
108028	4 150	4"	9	7.5	0.94	1.31	ϕ0.75	8	5.5254	----
108029	6 150	6"	11	9.5	1	1.56	ϕ0.875	8	7.5328	----

BLACK AND GALVANIZED COMPANION FLANGES

VALVES

THREADED COMPANION FLANGE CLASS 125 PATTERN (BLACK & GALVANIZED)

* DIMENSIONS, FACED AND DRILLED IN ACCORDANCE WITH ASME B16.42/AWWA C110
* COATING: AVAILABLE IN BLACK ELECTROPHORETIC COATING AND HOT DIP GALVANIZED
* HOT-DIPPED GALVANIZED CONFORM TO ASTM A153; COMPANION FLANGE THREADS CONFORM TO ASME B1.20.1
* APPLICATION: WATERWORKS, PUMP, IRRIGATION
* 150PSI



BLACK

PART #	DESCRIPTION (DI FLANGE)	SIZE (INCH)	A (INCH)	B (INCH)	C (INCH)	D (INCH)	BOLT HOLE SIZE	NO. OF HOLES	UNIT WEIGHT (KG)	
108075	2 1/2X7 1/2 (Pipe Size 2-1/2 x 3)	3" x 2"	7.50	6.00	0.75	1.19	ϕ0.75	4	4.3827	----
108076	1 1/2X9 (Pipe Size 1-1/2 x 4)	3" x 2-1/2"	7.50	6.00	0.75	1.19	ϕ0.75	4	4.2013	----
108077	2 X9 (Pipe Size 2 x 4)	4" x 1-1/2"	9.00	7.50	0.94	1.31	ϕ0.75	8	6.8352	----
108088	2 1/2X9 (Pipe Size 2-1/2 x 4)	4" x 2"	9.00	7.50	0.94	1.31	ϕ0.75	8	6.4168	----
108089	3 X9 (Pipe Size 3 x 4)	4" x 2-1/2"	9.00	7.50	0.94	1.31	ϕ0.75	8	6.3343	----
108090	2X10 (Pipe Size 2 x 5)	4" x 3"	9.00	7.50	0.94	1.31	ϕ0.75	8	6.081	----
108091	1 1/2 X11 (Pipe Size 1 1/2 x 6)	5" x 4"	10.00	8.50	0.94	1.44	ϕ0.875	8	6.8761	----
108094	2 1/2X11 (Pipe Size 2-1/2 x 6)	6" x 2"	11.00	9.50	1.00	1.56	ϕ0.875	8	10.6349	----
108095	4 X11 (Pipe Size 4 x 6)	6" x 3"	11.00	9.50	1.00	1.56	ϕ0.875	8	10.1831	----
108092	5 X11 (Pipe Size 5 x 6)	6" x 4"	11.00	9.50	1.00	1.56	ϕ0.875	8	9.4563	----
108096	5 X13 1/2 (Pipe Size 5 x 8)	8" x 4"	13.50	11.75	1.12	1.75	ϕ0.875	8	17.1296	----
108097	2 X16 R (Pipe Size 2 x 10)	8" x 6"	13.50	11.75	1.12	1.75	ϕ0.875	8	15.2184	----
108098	6 X16 150PSI R (Pipe Size 6 x 10)	8" x 2"	16.00	14.25	1.19	1.94	ϕ1	12	26.54	----

GALVANIZED

108031		2-1/2" x 2"								
108032		3" x 2"								
108033	1 1/2X9 (Pipe Size 1-1/2 x 4)	3" x 2-1/2"	7.50	6.00	0.75	1.19	ϕ0.75	4	4.2013	----
108034		4" x 2"								
108035	3 X9 (Pipe Size 3 x 4)	4" x 2-1/2"	9.00	7.50	0.94	1.31	ϕ0.75	8	6.3343	----
108036	2X10 (Pipe Size 2 x 5)	4" x 3"	9.00	7.50	0.94	1.31	ϕ0.75	8	6.081	----
108038	2 1/2X11 (Pipe Size 2-1/2 x 6)	6" x 2"	11.00	9.50	1.00	1.56	ϕ0.875	8	10.6349	----
108039	3 X11 (Pipe Size 3 x 6)	6" x 2-1/2"	11.00	9.50	1.00	1.56	ϕ0.875	8	10.5386	----
108037	5 X11 (Pipe Size 5 x 6)	6" x 4"	11.00	9.50	1.00	1.56	ϕ0.875	8	9.4563	----
108040	5 X13 1/2 (Pipe Size 5 x 8)	8" x 4"	13.50	11.75	1.12	1.75	ϕ0.875	8	17.1296	----
108041	2 X16 R (Pipe Size 2 x 10)	8" x 6"	13.50	11.75	1.12	1.75	ϕ0.875	8	15.2184	

LEAD FREE OVAL WATER METER FLANGE OVAL

PART#	SIZE	CASE	
970207	1-1/2"	32	----
970208	2"	48	----

LEAD FREE OVAL WATER METER KIT

W/ BOLT & NUT STAINLESS STEEL

NO	PART	MATERIALS	QTY	WATER CONTACT
1	BOLT	SS 304	4	N
2	FLANGE	BRASS LEAD FREE	2	Y
3	PACKING	RUBBER	2	Y

PART#	SIZE	CASE	
970227	1-1/2"	32	----
970228	2"	48	----

LEAD FREE OVAL METER FLANGE KIT

W/ BOLT & NUT STAINLESS STEEL (NO LEAD)

NO	PART	MATERIALS	QTY	WATER CONTACT
1	BOLT	SS 304	2	N
2	FLANGE	BRASS LEAD FREE	1	Y
3	PACKING	RUBBER	1	Y
4	NUT	SS 304	2	N

PART#	SIZE	CASE	
970217	1-1/2"	12	----
970218	2"	10	----

LEAD FREE BRASS METER COUPLING

PART#	SIZE	CASE	
970253	1/2"	100	----
970254	3/4"	100	----
970255	1"	80	----
970257	1-1/2"	24	----
970258	2"	24	----

NIPPLES & FITTINGS

BRASS & BRONZE..... 240-269

Brass Nipples - Sch 40..... 242-247
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Bronze Fittings..... 249-258
Lead Free Bronze Fittings..... 249-258
C/P Fittings..... 259-260
USA LF Bronze Fittings..... 261-265
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Bronze Barbs for PL. Pipe..... 268
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Sch. 80 Seamless Steel nipple..... 293-298
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Hammer Visions..... 322
Copper Fittings..... 323-329

BRASS NIPPLES

LEAD FREE

We hereby certify that to the best of our knowledge and belief the CDA 230 alloy seamless Red Brass Pipe from which our nipples are produced meet the requirements of ASTM Specifications B43 and is free of mercury contamination. The chemical analysis is 85% copper, 15% Zinc and conforms to federal Specifications WWN-351. Our brass nipples meet ANSI/ASTM B687-96 and MS51846 for standard brass nipples, and MS51872 for extra heavy brass nipples.

Threads: Nipples are threaded with American Standard taper pipe threads (NPT) in accordance with screw-thread standard for Federal Services Handbook H-58. ANSI B1.20.1

This product is certified by NSF to NSF/ANSI 61 for use in drinking water supplies of pH 6.5 and above.

- ASTM B43
- ANSI B1.20.1, WW-N-351
- ANSI/ ASTM B687-96
- NSF-61 Approved
- MS51846 STD Brass Nipples
- RoHS compliant

STANDARD RED BRASS 85%
PIPE WITH THREADED ENDS SPECIFICATIONS:

Pipe Size in Inches	Dimension in Inches		
	O.D.	I.D.	Wall Thickness
1/8"	.405	.281	.062
1/4"	.540	.376	.082
3/8"	.675	.495	.090
1/2"	.840	.626	.107
3/4"	1.050	.822	.114
1"	1.315	1.063	.126
1-1/4"	1.660	1.368	.146
1-1/2"	1.900	1.600	.150
2"	2.375	2.063	.156
2-1/2"	2.875	2.501	.187
3"	3.500	3.062	.219
3-1/2"	4.000	3.500	.250
4"	4.500	4.000	.250
4-1/2"	5.000	4.500	.250
5"	5.563	5.063	.250
6"	6.625	6.125	.250

Allowable Pressure POUNDS PER SQUARE INCH				
Standard Size (Inches)	@ 100° F	@ 200° F	@ 300° F	@ 400° F
1/8"	370	370	320	140
1/4"	870	870	760	330
3/8"	890	890	780	340
1/2"	900	900	790	340
3/4"	810	810	710	310
1"	630	630	560	240
1-1/4"	690	690	610	260
1-1/2"	630	630	560	240
2"	540	540	480	210
2-1/2"	450	450	390	170
3"	510	510	450	190
3-1/2"	570	570	500	220
4"	510	510	440	190
5"	410	410	360	160
6"	340	340	300	130

No-Lead 125LB seamless Threaded Red Brass Nipples - 2200

LEAD FREE

LEAD FREE

SCH 40 SEAMLESS
NIPPLES AND FITTINGS

113RB

LEAD FREE

1/8" - 27

1/8" DIAMETER SCH 40 SEAMLESS

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.	
40001	Close (3/4")	25/400	0.02	----
40002	x 1-1/2"	25/400	0.03	----
40003	x 2"	25/400	0.04	----
40004	x 2-1/2"	25/400	0.05	----
40005	x 3"	25/400	0.06	----
40006	x 3-1/2"	25/400	0.07	----
40007	x 4"	25/400	0.08	----
40008	x 4-1/2"	25/400	0.10	----
40009	x 5"	25/400	0.11	----
40010	x 5-1/2"	25/400	0.12	----
40011	x 6"	25/400	0.13	----
40012	x 7"	25/400	0.15	----
40013	x 8"	25/400	0.17	----
40014	x 9"	25/400	0.19	----
40015	x 10"	25/400	0.21	----
40017	x 12"	25/400	0.25	----
40018	x 14"	1/1	0.29	----
40019	x 16"	1/1	0.34	----

LEAD FREE

1/4"-18

1/4" DIAMETER SCH 40 SEAMLESS

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.	
40020	Close (7/8")	25/400	0.03	----
40021	x 1-1/2"	25/400	0.05	----
40022	x 2"	25/400	0.07	----
40023	x 2-1/2"	25/400	0.09	----
40024	x 3"	25/400	0.11	----
40025	x 3-1/2"	25/400	0.13	----
40026	x 4"	25/400	0.14	----
40027	x 4-1/2"	25/400	0.16	----
40028	x 5"	25/400	0.18	----
40029	x 5-1/2"	25/400	0.20	----
40030	x 6"	25/400	0.22	----
40031	x 7"	25/200	0.25	----
40032	x 8"	25/200	0.29	----
40033	x 9"	25/200	0.33	----
40034	x 10"	25/200	0.36	----
40035	x 11"	25/200	0.40	----
40036	x 12"	25/200	0.43	----

See page 7 for Yellow Brass Nipples

LEAD FREE

3/8"-18

3/8" DIAMETER SCH 40 SEAMLESS

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.	
40040	Close (1")	25/400	0.05	----
40041	x 1-1/2"	25/400	0.08	----
40042	x 2"	25/400	0.10	----
40043	x 2-1/2"	25/400	0.13	----
40044	x 3"	25/400	0.16	----
40045	x 3-1/2"	25/400	0.18	----
40046	x 4"	25/400	0.21	----
40047	x 4-1/2"	25/300	0.23	----
40048	x 5"	25/300	0.26	----
40049	x 5-1/2"	25/300	0.29	----
40050	x 6"	25/300	0.31	----
40051	x 7"	25/200	0.36	----
40052	x 8"	25/150	0.42	----
40053	x 9"	25/150	0.47	----
40054	x 10"	25/100	0.52	----
40055	x 11"	25/100	0.57	----
40056	x 12"	25/100	0.62	----

113RB

LEAD FREE

1/2" - 14

1/2" DIAMETER SCH 40 SEAMLESS

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.	
40060	Close (1-1/8")	25/400	0.09	----
40061	x 1-1/2"	25/400	0.12	----
40062	x 2"	25/400	0.16	----
40063	x 2-1/2"	25/300	0.20	----
40064	x 3"	25/300	0.23	----
40065	x 3-1/2"	25/300	0.27	----
40066	x 4"	25/200	0.31	----
40067	x 4-1/2"	25/200	0.35	----
40068	x 5"	25/200	0.39	----
40069	x 5-1/2"	25/200	0.43	----
40070	x 6"	25/200	0.47	----
40071	x 7"	25/100	0.55	----
40072	x 8"	25/100	0.62	----
40073	x 9"	25/100	0.70	----
40074	x 10"	25/75	0.78	----
40075	x 11"	25/75	0.86	----
40076	x 12"	25/75	0.94	----

SCH 40 SEAMLESS
NIPPLES AND FITTINGS

LEAD FREE

3/4" - 14

3/4" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
40080	Close (1- 3/8")	25/400	0.15	----
40081	x 1-1/2"	25/400	0.16	----
40082	x 2"	25/300	0.21	----
40083	x 2-1/2"	25/300	0.27	----
40084	x 3"	25/200	0.32	----
40085	x 3-1/2"	25/200	0.37	----
40086	x 4"	25/150	0.43	----
40087	x 4-1/2"	25/150	0.48	----
40088	x 5"	25/100	0.53	----
40089	x 5-1/2"	25/100	0.59	----
40090	x 6"	25/100	0.64	----
40091	x 7"	25/75	0.75	----
40092	x 8"	25/75	0.85	----
40093	x 9"	25/75	0.96	----
40094	x 10"	25/50	1.06	----
40095	x 11"	25/50	1.17	----
40096	x 12"	25/50	1.28	----
40097	x 18"	1/1	1.92	----
40098	x 24"	1/1	2.56	----
40099	x 36"	1/1	3.84	----

113RB

LEAD FREE

1" - 11 1/2

1" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
40100	Close (1-1/2")	25/200	0.23	----
40101	x 2"	25/200	0.30	----
40102	x 2-1/2"	25/150	0.38	----
40103	x 3"	25/150	0.45	----
40104	x 3-1/2"	25/100	0.53	----
40105	x 4"	25/100	0.60	----
40106	x 4-1/2"	25/100	0.68	----
40107	x 5"	25/75	0.75	----
40108	x 5-1/2"	25/75	0.83	----
40109	x 6"	25/50	0.94	----
40110	x 7"	25/50	1.05	----
40111	x 8"	25/50	1.20	----
40112	x 9"	25/50	1.35	----
40113	x 10"	25/50	1.50	----
40114	x 11"	25/50	1.65	----
40115	x 12"	20/40	1.80	----

LEAD FREE

1 1/4" - 11 1/2

1-1/4" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
40120	Close (1-5/8")	25/100	0.36	----
40121	x 2"	25/100	0.44	----
40122	x 2-1/2"	25/100	0.56	----
40123	x 3"	25/100	0.67	----
40124	x 3-1/2"	25/100	0.78	----
40125	x 4"	25/50	0.89	----
40126	x 4-1/2"	25/50	1.00	----
40127	x 5"	25/50	1.11	----
40128	x 5-1/2"	25/50	1.22	----
40129	x 6"	25/50	1.33	----
40130	x 7"	25/50	1.56	----
40131	x 8"	25/50	1.78	----
40132	x 9"	25/50	2.00	----
40133	x 10"	25/50	2.22	----
40134	x 11"	25/50	2.45	----
40135	x 12"	25/50	2.67	----
40136	x 18"	1/1	4.00	----

113RB

LEAD FREE

1-1/2" - 11 1/2

1-1/2" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
40140	Close (1-3/4")	25/100	0.46	----
40141	x 2"	25/100	0.53	----
40142	x 2-1/2"	25/50	0.66	----
40143	x 3"	25/50	0.79	----
40144	x 3-1/2"	25/50	0.93	----
40145	x 4"	25/50	1.06	----
40146	x 4-1/2"	25/50	1.19	----
40147	x 5"	20/40	1.32	----
40148	x 5-1/2"	20/40	1.46	----
40149	x 6"	20/40	1.59	----
40150	x 7"	20/40	1.85	----
40151	x 8"	20/40	2.12	----
40152	x 9"	20/40	2.38	----
40153	x 10"	20/40	2.65	----
40154	x 11"	1/40	2.91	----
40155	x 12"	1/15	3.18	----
40156	x 18"	1/1	4.77	----

SCH 40 SEAMLESS
NIPPLES AND FITTINGS

LEAD FREE

2" - 11 1/2

2" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
40160	Close (2")	25/50	0.69	----
40161	x 2-1/2"	25/50	0.86	----
40162	x 3"	25/50	1.03	----
40163	x 3-1/2"	25/50	1.20	----
40164	x 4"	1/25	1.37	----
40165	x 4-1/2"	1/25	1.54	----
40166	x 5"	1/25	1.72	----
40167	x 5-1/2"	1/25	1.89	----
40168	x 6"	1/25	2.06	----
40169	x 7"	1/20	2.40	----
40170	x 8"	1/18	2.74	----
40171	x 9"	1/18	3.09	----
40172	x 10"	1/18	3.43	----
40173	x 11"	1/18	3.77	----
40174	x 12"	1/14	4.12	----
40175	x 18"	1/1	6.18	----
40176	x 24"	1/1	8.24	----
40178	x 36"	1/1	12.36	----
40179	x 48"	1/1	16.48	----

113RB

LEAD FREE

2 1/2" - 8

2-1/2" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
40180	Close (2-1/2")	1/36	1.26	----
40181	x 3"	1/36	1.51	----
40182	x 3-1/2"	1/30	1.76	----
40183	x 4"	1/30	2.02	----
40184	x 4-1/2"	1/30	2.27	----
40185	x 5"	1/20	2.52	----
40186	x 5-1/2"	1/20	2.77	----
40187	x 6"	1/20	3.03	----

We know what we are, but know not what we may be.

- William Shakespeare

See our Valve section for 2-1/2, 3 and 4" Valves

LEAD FREE

3" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
40200	Close (2-5/8")	1/24	1.89	----
40201	x 3"	1/20	2.16	----
40202	x 3-1/2"	1/18	2.52	----
40203	x 4"	1/18	2.88	----
40204	x 4-1/2"	1/18	3.24	----
40205	x 5"	1/18	3.60	----
40206	x 5-1/2"	1/18	3.96	----
40207	x 6"	1/12	4.32	----
40209	x 8"	1/1	5.76	----
40213	x 12"	1/1		

113RB

LEAD FREE

4" DIAMETER SCH 40 SEAMLESS

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.	
40220	Close (2-7/8)	1/20	2.40	----
40221	x 3"	1/10	2.72	----
40222	x 3-1/2"	1/10	3.18	----
40223	x 4"	1/10	3.71	----
40224	x 4-1/2"	1/5	4.24	----
40225	x 5"	1/5	4.77	----
40226	x 5-1/2"	1/5	5.30	----
40234	x 6"	1/5	6.36	----

LEAD FREE

6" DIAMETER SCH 40 SEAMLESS

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.	
40254	Close	1/1	4.94	----
40256	x 4"	1/1	6.54	----
40259	x 4-1/2"	1/1	7.12	----
40260	x 5"	1/1	7.91	----
40261	x 6"	1/1	9.49	----

CHROME PLATED
NIPPLES AND FITTINGS

113CP

LEAD FREE

3/8" DIAMETER CHROME PLATED

Part #	Size	Box/Case	Approx. Wt. Lbs.	
41040	X Close	5/25	0.05	--------
41041	x 1-1/2"	5/25	0.08	--------
41042	x 2"	5/25	0.10	--------
41043	x 2-1/2"	5/25	0.13	--------
41044	x 3"	5/25	0.16	--------
41045	x 3-1/2"	5/25	0.18	--------
41046	x 4"	5/25	0.21	--------
41047	x 4-1/2"	5/25	0.23	--------
41048	x 5"	5/25	0.26	--------
41049	x 5-1/2"	5/25	0.29	--------
41050	x 6"	5/25	0.31	--------

LEAD FREE

1/2" DIAMETER CHROME PLATED

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.	
41060	X Close	5/25	0.09	----
41061	x 1-1/2"	5/25	0.12	----
41062	x 2"	5/25	0.16	----
41063	x 2-1/2"	5/25	0.20	----
41064	x 3"	5/25	0.23	----
41065	x 3-1/2"	5/25	0.27	----
41066	x 4"	5/25	0.31	----
41067	x 4-1/2"	5/25	0.35	----
41068	x 5"	5/25	0.39	----
41069	x 5-1/2"	5/25	0.43	----
41070	x 6"	5/25	0.47	----
41074	x 10"	1/1	0.78	----

81300-12

LEAD FREE

3/4" DIAMETER CHROME PLATED

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.	
41080	Close (1- 3/8")	25/400	0.15	----
41081	x 1-1/2"	25/400	0.16	----
41082	x 2"	25/300	0.21	----
41083	x 2-1/2"	25/300	0.27	----
41084	x 3"	25/200	0.32	----
41085	x 3-1/2"	25/200	0.37	----
41086	x 4"	25/150	0.43	----
41087	x 4-1/2"	25/150	0.48	----
41088	x 5"	25/100	0.53	----
41089	x 5-1/2"	25/100	0.59	----
41090	x 6"	25/100	0.64	----

81300-16

LEAD FREE

1" DIAMETER CHROME PLATED

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.	
41100	Close (1-1/2")	25/200	0.23	----
41101	x 2"	25/200	0.30	----
41102	x 2-1/2"	25/150	0.38	----
41103	x 3"	25/150	0.45	----
41104	x 3-1/2"	25/100	0.53	----
41105	x 4"	25/100	0.60	----
41106	x 4-1/2"	25/100	0.68	----
41107	x 5"	25/75	0.75	----
41108	x 5-1/2"	25/75	0.83	----
41109	x 6"	25/50	0.94	----

WARNING: This product can expose you to chemicals, including chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRONZE FITTINGS

UL842, UL258, UL125,FM

Class 125 (150) For steam, water, gas, oil and air service

Standard specifications

- UL/ FM Approved
- 1S0 9001:2000
- Not Lead Free
- RoHS Compliant

Materials - ASTM B62-93 (85,5,5,5) C83600
Dimensions - ANSI B 16.15
Threads - ANSI B2.1 or BA 21 and Fed. WW-P-460C, MSS-SP-106, ANSI/ASME B1.20.1

Bronze threaded fittings are manufactured from smooth-cored castings, designed to provide full flow with minimum restriction. All threads are accurately machined and gauged to ensure a perfect fit with the pipe. All fittings are individually tested under water to ensure quality. Bronze provides a tighter seal and is easier to install than other metals. Can be used for water, plumbing, heating, pneumatic and marine applications, able to resist the harmful effects of corrosion when coming into contact with salt water or fresh water polluted with mineral acids or peaty soils.

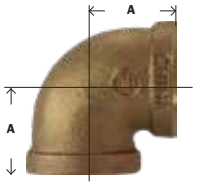
LEAD FREE BRASS FITTINGS

- Approved to ANSI/NSF 61-4 California AB 1953
- Meets Federal State Drinking Water Act, Lead Free Requirement
- Brass fittings conform to AWWA C800
- Brass castings conform to ASTM B584, UNS Alloy C8933
- Brass fittings dimensions conform to ASME B16.15
- NPT threads on all fittings conform to ASME B1.20.1
- Brass unions conform to specification A-A-59617
- Manufacturing facilities are ISO 9001:2008

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS



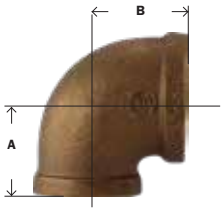
100RB

738100

LEAD FREE

90° ELBOWS

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #	
44100	----	0.08	50/600	1/8″	0.55	0.06	44-100LF	----
44101	----	0.12	35/420	1/4″	0.72	0.10	44-101LF	----
44102	----	0.17	90/360	3/8″	0.83	0.15	44-102LF	----
44103	----	0.24	50/200	1/2″	1.03	0.25	44-103LF	----
44104	----	0.34	35/105	3/4″	1.19	0.41	44-104LF	----
44105	----	0.61	20/60	1″	1.43	0.69	44-105LF	----
44106	----	0.95	20/40	1-1/4″	1.71	1.02	44-106LF	----
44107	----	1.30	15/30	1-1/2″	1.87	1.36	44-107LF	----
44108	----	2.07	8/16	2″	2.14	2.14	44-108LF	----
44109	----	3.80	1/12	2-1/2″	2.74	3.79	44-109LF	
44110	----	4.76	1/4	3″	3.10	5.21	44-110LF	----
44112	----	9.71	1/2	4″	3.80	8.59	44-112LF	



100RRB

738105

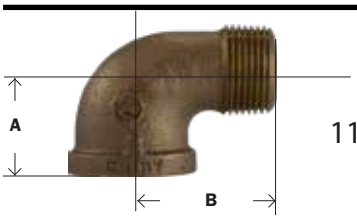
LEAD FREE

90° REDUCING ELBOWS

PART #		APPROX. WT. LBS.	BOX/ CASE	SIZE	A	B	APPROX. WT. LBS.	PART #	
44120				1/4 x 1/8				44120LF	----
				3/8 x 1/8				44121LF	----
44122	----			3/8 x 1/4				44122LF	----
44123	----	0.44	60/240	1/2 x 1/4	0.93	0.90	0.19	44123LF	----
44124	----	0.58	60/240	1/2 x 3/8	0.93	0.90	0.22	44124LF	----
44125	----	0.80	40/160	3/4 x 1/4	1.08	1.11	0.31	44125LF	----
				3/4 x 3/8				44126LF	----
44127	----			3/4 x 1/2				44127LF	----
				1 x 1/4				44128LF	----
				1 x 3/8				44129LF	----
				1 x 1/2				44130LF	----
44131	----	1.07	50/100	1 x 3/4	1.30	1.31	0.56	44131LF	----
				1 1/4 x 1/2				44132LF	----
				1 1/4 x 3/4				44133LF	----
44134	----	0.80	25/50	1 1/4 x 1	1.52	1.60	0.81	44134LF	----
				1 1/2 x 1/2				44135LF	----
				1 1/2 x 3/4				44136LF	----
44137	----	1.07	10/40	1 1/2 x 1	1.56	1.72	1.02	44137LF	----
				1 1/2 x 1 1/4				44138LF	----
44140	----			2 x 1				44140LF	----
				2 x 1 1/4				44141LF	----
				2 x 1 1/2				44142LF	----
				2 1/2 x 2				44146LF	----
				3 x 2				44150LF	----

• Other sizes available online

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



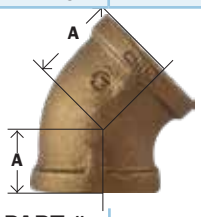
116RB

738116

LEAD FREE

90° STREET ELLS

PART #		APPROX. WT. LBS.	BOX/ CASE	SIZE	A	B	APPROX. WT. LBS.	PART #	
44160	----	0.07	60/720	1/8″	0.55	0.92	0.06	44160LF	----
44161	----	0.11	35/420	1/4″	0.72	1.11	0.11	44161LF	----
44162	----	0.18	60/240	3/8″	0.83	1.24	0.16	44162LF	----
44163	----	0.24	60/180	1/2″	1.03	1.51	0.24	44163LF	----
44164	----	0.37	35/105	3/4″	1.19	1.66	0.38	44164LF	----
44165	----	0.67	45/90	1″	1.43	1.98	0.66	44165LF	----
44166	----	1.00	25/50	1-1/4″	1.71	2.26	0.99	44166LF	----
44167	----	1.37	9/27	1-1/2″	1.87	2.46	1.15	44167LF	----
44168	----	1.93	8/16	2″	2.14	2.98	2.07	44168LF	----
44169	----	4.05	5/10	2-1/2″	2.74	3.92	3.79	44169LF	----
44170	----	6.16	1/8	3″	3.10	4.45	6.38	44170LF	----



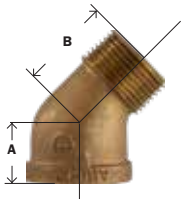
10045RB

738107

LEAD FREE

45° ELBOWS

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #	
44180	----	0.08	50/600	1/8″	0.43	0.05	44180LF	----
44181	----	0.13	30/360	1/4″	0.55	0.09	44181LF	----
44182	----	0.17	75/300	3/8″	0.63	0.14	44182LF	----
44183	----	0.21	50/200	1/2″	0.79	0.19	44183LF	----
44184	----	0.32	40/120	3/4″	0.91	0.36	44184LF	----
44185	----	0.52	20/60	1″	1.07	0.59	44185LF	----
44186	----	0.86	20/40	1-1/4″	1.23	0.87	44186LF	----
44187	----	1.10	10/30	1-1/2″	1.31	1.13	44187LF	----
44188	----	1.71	12/24	2″	1.47	1.65	44188LF	----
44189	----	3.24	1/12	2-1/2"	1.95	2.69	44189LF	----
44190	----	4.12	1/10	3"	2.17	3.68	44190LF	----
				4"	2.60	7.49	44191LF	----



124RB

738124

LEAD FREE

45° STREET ELBOWS

PART #		APPROX. WT. LBS.	BOX/ CASE	SIZE	A	B	APPROX. WT. LBS.	PART #	
44200	----	0.06	70/840	1/8″	0.26	0.43	0.06		
44201	----	0.11	100/400	1/4″	0.35	0.56	0.09	44201LF	----
44202	----	0.13	100/400	3/8″	0.37	0.63	0.12	44202LF	----
44203	----	0.18	75/225	1/2″	0.45	0.79	0.22	44203LF	----
44204	----	0.28	40/120	3/4″	0.52	0.91	0.31	44204LF	----
44205	----	0.52	25/75	1″	0.60	1.07	0.52	44205LF	----
44206	----	0.77	10/40	1-1/4″	0.67	1.23	0.72	44206LF	----
44207	----	0.97	10/30	1-1/2″	0.70	1.31	1.05	44207LF	----
44208	----	2.04	12/24	2″	0.76	1.47	2.04	44208LF	----

BRONZE/ LEAD FREE BRONZE

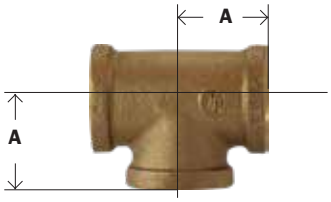
NIPPLES AND FITTINGS

102RB

738102

CROSSES

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #	
44391	----	0.20	60/240	1/4″	0.72	0.15	44391LF	----
44392	----	0.15	50/150	3/8″	0.83	0.25	44392LF	----
44393	----	0.45	30/90	1/2″	1.03	0.38	44393LF	----
44394	----	0.76	20/60	3/4″	1.19	0.59	44394LF	----
44395	----	1.04	15/30	1″	1.19	0.94	44395LF	----
44396	----	1.63	10/20	1-1/4″	1.71	1.43	44396LF	----
44397	----	2.10	8/16	1-1/2″	1.87	1.89	44397LF	----
44398	----	3.28	5/10	2″	2.14	2.95	44398LF	----

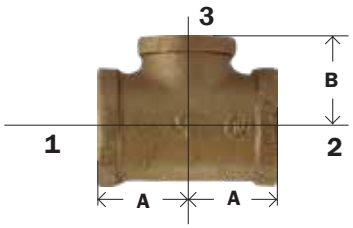


101RB

TEES

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #	
44250	----	0.11	120/480	1/8″	0.55	0.09	44250LF	----
44251	----	0.17	75/300	1/4″	0.72	0.13	44251LF	----
44252	----	0.25	45/180	3/8″	0.83	0.21	44252LF	----
44253	----	0.31	40/120	1/2″	1.03	0.35	44253LF	----
44254	----	0.50	35/70	3/4″	1.19	0.55	44254LF	----
44255	----	0.85	20/40	1″	1.43	0.92	44255LF	----
44256	----	1.29	14/28	1-1/4″	1.71	1.34	44256LF	----
44257	----	1.68	12/24	1-1/2″	1.87	1.82	44257LF	----
44258	----	2.70	8/16	2″	2.14	2.80	44258LF	----
44259	----	5.14	1/6	2-1/2″	2.74	4.70	44259LF	----
44260	----	7.59	1/6	3″	3.10	6.69	44260LF	----
				4"	3.18	11.92	44261LF	----

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



101RRB

738106

LEAD FREE

REDUCING TEES
REDUCING ON THE BRANCH

PART #		APPROX. WT. LBS.	BOX/ CASE	SIZE 1 X 2 X 3	A	B	APPROX. WT. LBS.	PART #	
				1/4 x 1/4 x 1/8				44270LF	----
				3/8 x 3/8 x 1/4				44273LF	----
44276	----	0.24	40/160	1/2 x 1/2 x 1/4	0.87	0.87	0.28	44276LF	----
				1/2 x 1/2 x 3/8				44279LF	----
44280	----	0.46	40/160	1/2 x 1/2 x 3/4	2.42	1.155	0.48	44280LF	----
44287	----			3/4 x 1/2 x 1/2				44287LF	----
				3/4 x 1/2 x 3/4				44288LF	----
44282	----	0.43	25/100	3/4 x 3/4 x 1/4	1.05	1.08	0.38	44282LF	----
44283	----	0.45	25/100	3/4 x 3/4 x 3/8	1.00	1.00	0.46	44283LF	----
44286	----	0.53	20/80	3/4 x 3/4 x 1/2	1.08	1.11	0.40	44286LF	----
				3/4 x 3/4 x 1				44288LF	----
				1 x 1/2 x 1/2				44292LF	----
				1 x 1/2 x 3/4				44293LF	----
44296	----			1 x 3/4 x 3/4				44296LF	----
				1 x 1 x 1/4				44268LF	----
				1 x 1 x 3/8				44290LF	----
44291	----	0.60	15/60	1 x 1 x 1/2	1.20	1.24	0.73	44291LF	----
44298	----	0.80	12/48	1 x 1 x 3/4	1.30	1.31	0.71	44298LF	----
				1 1/4 x 1/2x1 x 1 1/4				44314LF	----
44301	----	0.85	20/40	1 1/4 x 1 1/4 x 1/2	1.34	1.53	1.18	44301LF	----
44303	----	0.90	20/40	1 1/4 x 1 1/4 x 3/4	1.30	1.31	1.08	44303LF	----
44306	----	1.21	20/40	1 1/4 x 1 1/4 x 1	1.58	1.67	1.23	44306LF	----
				1 1/2 x 1 1/2 x 1/2				44315LF	----
				1 1/2 x 1 1/2 x 3/4				44316LF	----
				1 1/2 x 1 1/2 x 1				44318LF	----
				1 1/2 x 1 1/2 x 1 1/4				44322LF	----
				2 x 2 x 1/2				44327LF	----
				2 x 2 x 3/4				44328LF	----
				2 x 2 x 1			1.88	44330LF	----
				2 x 2 x 1 1/4			2.03	44334LF	----
				2 x 2 x 1 1/2				44336LF	----
				2 1/2 x 2 1/2 x 2				44344LF	----
				3 x 3 x 2				44351LF	----

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS

103RB

738103

LEAD FREE

COUPLINGS

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #	
44410	----	0.12	70/840	1/8″	0.80	0.06	44410LF	----
44411	----	0.11	40/480	1/4″	0.80	0.09	44411LF	----
44412	----	0.15	40/480	3/8″	1.05	0.13	44412LF	----
44413	----	0.18	60/240	1/2″	1.29	0.21	44413LF	----
44414	----	0.28	50/150	3/4″	1.43	0.32	44414LF	----
44415	----	0.45	25/100	1″	1.68	0.53	44415LF	----
44416	----	0.63	16/64	1-1/4″	1.86	0.73	44416LF	----
44417	----	0.82	18/36	1-1/2″	1.92	0.97	44417LF	----
44418	----	1.38	12/24	2″	2.20	1.51	44418LF	----
44419	----	2.63	1	2-1/2"	2.88	2.20	44419LF	----
44420	----	3.80	1	3″	3.18	3.63	44420LF	----
				4"			44421LF	----

119RB

738119

LEAD FREE

REDUCING COUPLINGS

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #	
44430	----	0.08	70/840	1/4″ x 1/8″	0.88	0.08	44430LF	----
44431	----	0.11	35/420	3/8″ x 1/8″	0.92	0.10	44431LF	----
44432	----	0.13	30/360	3/8″ x 1/4″	0.92	0.11	44432LF	----
44433	----	0.16	75/300	1/2″ x 1/8″	1.17	0.14		
44434	----	0.16	75/300	1/2″ x 1/4″	1.17	0.16	44434LF	----
44435	----	0.18	60/240	1/2″ x 3/8″	1.17	0.17	44435LF	----
44436	----	0.23	45/180	3/4″ x 1/4″	1.35	0.20	44436LF	----
44437	----	0.24	45/180	3/4″ x 3/8″	1.35	0.23	44437LF	----
44438	----	0.23	60/180	3/4″ x 1/2″	1.35	0.26	44438LF	----
44440	----	0.40	30/120	1″ x 3/8″	1.56	0.40		
44441	----	0.33	30/120	1″ x 1/2″	1.56	0.38	44441LF	----
44442	----	0.44	25/100	1″ x 3/4″	1.56	0.43	44442LF	----
44444	----	0.62	25/75	1-1/4″ x 1/2″	1.77	0.60	44444LF	----
44445	----	0.64	25/75	1-1/4″ x 3/4″	1.77	0.57	44445LF	----
44446	----	0.54	15/60	1-1/4″ x 1″	1.77	0.65	44446LF	----
44447	----	0.80	20/60	1-1/2″ x 1/2″	1.80	0.77	44447LF	----
44448	----	0.83	15/60	1-1/2″ x 3/4″	1.80	0.74	44448LF	----
44449	----	0.68	25/50	1-1/2″ x 1″	1.80	0.83	44449LF	----
44450	----	0.99	12/48	1-1/2″ x 1-1/4″	1.80	0.87	44450LF	----
44458	----	1.28	12/36	2″ x 1/2″	2.03	1.07		
44451	----	0.97	12/36	2″ x 3/4″	2.03	1.25	44451LF	----
44452	----	1.40	12/36	2″ x 1″	2.03	1.19	44452LF	----
44453	----	1.09	9/27	2″ x 1-1/4″	2.03	1.22	44453LF	----
44454	----	3.60	9/27	2″ x 1-1/2″	2.03	1.28	44454LF	----
44461	----	1.26	1	2-1/2″ x 1-1/2″	3.15	1.94		
44462	----	2.29	1	2-1/2″ x 2″	3.15	2.37	44462LF	----
44456	----	2.49	1	3″ x 2″	3.69	2.46		
44463	----	3.92	1	3″ x 2-1/2″	3.69	3.82		

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS

108RB

738108

LEAD FREE

CAPS

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #	
44470	----	0.04	80/160	1/8″	0.53	0.03	44470LF	----
44471	----	0.06	80/960	1/4″	0.58	0.06	44471LF	----
44472	----	0.10	60/720	3/8″	0.66	0.09	44472LF	----
44473	----	0.13	75/300	1/2″	0.75	0.13	44473LF	----
44474	----	0.19	40/160	3/4″	0.87	0.21	44474LF	----
44475	----	0.30	25/100	1″	1.03	0.35	44475LF	----
44476	----	0.51	20/80	1-1/4″	1.10	0.52	44476LF	----
44477	----	0.66	18/54	1-1/2″	1.12	0.65	44477LF	----
44478	----	1.00	12/36	2″	1.35	1.14	44478LF	----
44479				2-1/2"	1.69	1.83	44479LF	----
44480	----	2.74	1	3″	1.83	2.64	44480LF	----
				4"	2.09	4.21	44481LF	----

104RB

738104

LEAD FREE

UNIONS

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #	
44600	----	0.17	40/160	1/8″	1.18	0.13	44600LF	----
44601	----	0.25	40/160	1/4″	1.26	0.27	44601LF	----
44602	----	0.37	40/160	3/8″	1.50	0.39	44602LF	----
44603	----	0.52	50/100	1/2″	1.57	0.44	44603LF	----
44604	----	0.78	35/70	3/4″	1.89	0.59	44604LF	----
44605	----	1.18	20/40	1″	2.13	0.90	44605LF	----
44606	----	1.64	15/30	1-1/4″	2.36	1.33	44606LF	----
44607	----	2.08	10/20	1-1/2″	2.68	1.80	44607LF	----
44608	----	3.24	6/12	2″	2.99	2.66	44608LF	----
44609	----	5.31	4/8	2-1/2″	3.35	4.80	44609LF	----
44610	----	6.94	4/8	3″	3.74	6.49	44610LF	----
				4"	3.86	9.56	44611LF	----

• Straight Thread

111RB

738111

LEAD FREE

HEX LOCKNUTS

PART #	BOX/ CASE	SIZE	A	THICKNESS	APPROX. WT. LBS.		
44-700	180/720	1/8″	0.50	0.19	0.01	44700LF	----
44-701	90/540	1/4″	0.66	0.25	0.03	44701LF	----
44-702	90/540	3/8″	0.77	0.28	0.04	44702LF	----
44-703	90/360	1/2″	0.97	0.31	0.09	44703LF	----
44-704	90/360	3/4″	1.23	0.34	0.10	44704LF	----
44-705	50/150	1″	1.50	0.38	0.17	44705LF	----
44-706	45/180	1-1/4″	1.86	0.42	0.22	44706LF	----
44-707	45/135	1-1/2″	2.12	0.47	0.29	44707LF	----
44-708	25/75	2″	2.63	0.53	0.45	44708LF	----

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BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS

Hex

110RB

738110

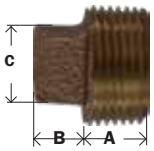
LEAD FREE

HEX BUSHINGS

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	HEX	APPROX. WT. LBS.	PART #	
44500	----	0.02	120/1440	1/4″ x 1/8″	0.58	0.66	0.03	44500LF	----
44501	----	0.06	75/900	3/8″ x 1/8″	0.64	0.72	0.06	44501LF	----
44502	----	0.04	75/900	3/8″ x 1/4″	0.64	0.75	0.04	44502LF	----
44503	----	0.10	150/600	1/2″ x 1/8″	0.75	0.92	0.09	44503LF	----
44504	----	0.09	150/600	1/2″ x 1/4″	0.75	0.93	0.10	44504LF	----
44505	----	0.08	150/600	1/2″ x 3/8″	0.75	0.92	0.08	44505LF	----
44506	----	0.17	75/300	3/4″ x 1/8″	0.87	1.15	0.17	44506LF	----
44507	----	0.15	75/300	3/4″ x 1/4″	0.85	1.14	0.18	44507LF	----
44508	----	0.14	75/300	3/4″ x 3/8″	0.85	1.14	0.17	44508LF	----
44509	----	0.14	75/300	3/4″ x 1/2″	0.85	1.15	0.14	44509LF	----
44557	----	0.24	50/200	1" x 1/8"	1.05	1.43			
44510*	----	0.23	50/200	1″ x 1/4″	1.05	1.43	0.28	44510LF*	----
44511*	----	0.22	50/200	1″ x 3/8″	1.05	1.50	0.26	44511LF	----
44512	----	0.25	50/200	1″ x 1/2″	1.00	1.40	0.30	44512LF	----
44513	----	0.21	50/200	1″ x 3/4″	1.00	1.43	0.21	44513LF	----
44514	----	0.34	30/120	1-1/4″ x 1/4″	1.22	1.10	0.34	44514LF	----
44515	----	0.35	30/120	1-1/4″ x 3/8″	1.19	1.84	0.29	44515LF	----
44516*	----	0.34	30/120	1-1/4″ x 1/2″	1.14	1.33	0.39	44516LF*	----
44517	----	0.40	30/120	1-1/4″ x 3/4″	1.08	1.75	0.43	44517LF	----
44518	----	0.33	30/120	1-1/4″ x 1″	1.08	1.76	0.42	44518LF	----
44519*	----	0.47	25/75	1-1/2″ x 1/4″	1.09	2.12	0.29	44519LF	----
44520*	----	0.45	25/75	1-1/2″ x 3/8″	1.35	2.16	0.44	44520LF	----
44521*	----	0.44	25/75	1-1/2″ x 1/2″	1.20	2.10	0.51	44521LF*	----
44522*	----	0.48	25/75	1-1/2″ x 3/4″	1.20	2.12	0.54	44522LF*	----
44523	----	0.53	25/75	1-1/2″ x 1″	1.14	2.08	0.57	44523LF	----
44524	----	0.45	25/75	1-1/2″ x 1-1/4″	1.14	2.12	0.46	44524LF	----
44527*	----	0.67	20/60	2″ x 1/2″	1.27	1.32	1.10	44527LF	----
44528*	----	0.74	20/60	2″ x 3/4″	1.27	1.62	0.77	44528LF	----
44529*	----	0.76	20/60	2″ x 1″	1.29	1.95	0.77	44529LF*	----
44530	----	0.86	20/60	2″ x 1-1/4″	1.22	2.47	0.88	44530LF	----
44531	----	0.83	20/60	2″ x 1-1/2″	1.22	2.50	0.71	44531LF	----
44532	----	1.16	15/30	2-1/2″ x 1″	1.53	1.94	1.19	44532LF	----
			15/30	2-/1/2" x 1-1/4"		1.50	1.24	44533LF	----
44534	----	1.36	15/30	2-1/2″ x 1-1/2″	1.50	2.38	1.15	44534LF	----
44535	----	1.13	15/30	2-1/2″ x 2″	1.43	2.97	1.12	44535LF	----
44537	----	1.82	12/24	3″ x 1-1/2″	1.61	2.68	2.44	44537LF	----
44538	----	2.33	12/24	3″ x 2″	1.61	3.70	1.82	44538LF	----
44539	----	2.19	12/24	3″ x 2-1/2″	1.53	3.70	2.11	44539LF	----
44541	----	3.51	5/10	4" x 2"	1.81	4.62	3.86	44541LF	----
			5/10	4" x 2-1/2"	1.81	4.62	3.48	44542LF	----
44543	----	4.22	12/24	4" x 3"	2.01	4.62	3.56	44543LF	----

* INSIDE HEX

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



109RB

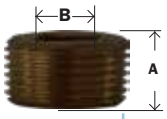
738109

LEAD FREE

CORED SQUARE HEAD PLUGS

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	B	C	APPROX. WT. LBS.	PART #	
44650*	----	0.02	300/3600	1/8″	0.27	0.24	0.28	0.02	44650LF	----
44651*	----	0.04	150/1800	1/4″	0.41	0.28	0.37	0.04	44651LF	----
44652*	----	0.06	100/1200	3/8″	0.41	0.31	0.43	0.06	44652LF	----
44653	----	0.10	50/600	1/2″	0.54	0.38	0.56	0.10	44653LF	----
44654	----	0.13	30/360	3/4″	0.55	0.44	0.62	0.13	44654LF	----
44655	----	0.25	20/240	1″	0.69	0.50	0.81	0.22	44655LF	----
44656	----	0.39	40/120	1-1/4″	0.71	0.56	0.93	0.32	44656LF	----
44657	----	0.57	30/90	1-1/2″	0.73	0.62	1.12	0.47	44657LF	----
44658	----	0.77	20/60	2″	0.76	0.68	1.31	0.68	44658LF	----
44659	----	1.25	16/32	2-1/2″	1.07	0.74	1.50	1.26	44659LF	----
44660	----	2.02	16/32	3″	1.13	0.80	1.68	1.49	44660LF	----
44662	----	3.20	6/12	4″	1.22	0.92	2.25	3.20	44662LF	----

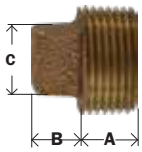
* solid



109ALRB **SQUARE DRIVE** 738115

BRONZE COUNTERSUNK PLUGS

PART #	A	SOCKET SIZE	SIZE	BOX/CASE	APPROX. WT. LBS.	SIZE	
			1/8"			44630LF	----
			1/4"			44631LF	----
			3/8"			44632LF	----
44633	0.57	0.43	1/2″	120/1440	0.06	44633LF	----
44634	0.58	0.47	3/4″	70/840	0.11	44634LF	----
44635	0.75	0.59	1″	20/240	0.22	44635LF	----
44636	0.74	0.72	1-1/4″	40/120	0.33	44636LF	----
44637	0.79	0.72	1-1/2″	30/90	0.50	44637LF	----
44638	0.80	0.85	2″	20/60	0.88	44638LF	----
44639	1.08	1.25	2-1/2"	1/1	1.56	44639LF	----
44640	1.13	1.38	3"	1/1	2.47	44640LF	----
44641	1.22	2.12	4"	1/1	3.21	44641LF	----



109SRB

738114

SOLID SQUARE HEAD PLUGS

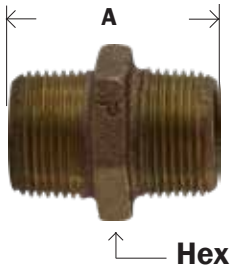
PART #		A	B	C	SIZE	BOX/CASE	APPROX. WT. LBS.	PART #	
44670	----	0.27	0.24	0.28	1/8″	400/4800	0.02	44670LF	----
44671	----	0.41	0.28	0.37	1/4″	150/1800	0.04	44671LF	----
44672	----	0.41	0.31	0.43	3/8″	120/1440	0.06	44672LF	----
44673	----	0.54	0.38	0.56	1/2″	50/600	0.12	44673LF	----
44674	----	0.55	0.44	0.62	3/4″	35/420	0.18	44674LF	----
44675	----	0.69	0.50	0.81	1″	20/240	0.36	44675LF	----
44676	----	0.71	0.56	0.93	1-1/4″	30/120	0.63	44676LF	----
44677	----	0.73	0.62	1.12	1-1/2″	30/90	0.84	44677LF	----
44678	----	0.76	0.68	1.31	2″	10/60	1.27	44678LF	----
					2-1/2"			44679LF	----
					3"			44680LF	----
					4"			44681LF	----

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS

HEX NIPPLES



PART #	SIZE	A	HEX	BOX/CASE	APPROX. WT. LBS.	
44720	1/8″	1.25	0.50	400/4800	0.05	----
44721	1/4″	1.25	0.61	150/1800	0.06	----
44722	3/8"	1.55	0.68	120/1440	0.11	----
44723	1/2″	1.65	1.03	240/480	0.18	----
44724	3/4″	1.77	1.21	80/320	0.24	----
44725	1″	2.06	1.46	50/150	0.36	----
44726	1-1/4″	2.12	1.81	50/100	0.47	----
44727	1-1/2″	2.25	2.07	35/70	0.76	----
44728	2″	2.50	2.41	20/40	1.50	----
44729	2-1/2″	2.80	3.10	1	2.10	----
44730M	3"	3.58	3.88	4/8	2.53	----

REDUCING HEX NIPPLES

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.	
44740	1/4" x 1/8"	1/1	0.06	----
44742	1/2" x 3/8"	1/1	0.16	----
44750	1-1/2" x 1"	1/1	0.64	----
44753	1-1/2" x 1-1/4"	1/1	0.68	----

See page 239 for Stainless Steel Reducing Hex Nipples

FLANGE THREADED COMPANION LEAD-FREE

PART #	SIZE	STD. PACK.	WT. PER 100	
44790LF	1/2" x 3-1/2"	1	95	----
44791LF	3/4" x 3-7/8"	1	124	----
44792LF	1" x 4-1/4"	1	168	----
44793LF	1-1/4" x 4-5/8"	1	224	----
44794LF	1-1/2" x 5"	1	251	----
44795LF	2" x 6"	1	454	----
44796LF	2-1/2" x 7"	1	673	----
44797LF	3" x 7-1/2"	1	864	----
44798LF	4" x 9"	1	1227	----
44799LF	5" x 10"	1	1495	----
44800LF	6" x 11"	1	1801	----

FLANGE SWEAT COMPANION LEAD FREE

PART #	SIZE	STD. PACK.	WT. PER 100	
44827LF	1-1/2" x 5"	1	176	----
44828LF	2" x 6"	1	291	----
44829LF	2-1/2" x 7"	1	405	----
44830LF	3" x 7-1/2"	1	520	----
44831LF	4" x 9"	1	798	----

FLANGE FLOOR LEAD FREE

PART #	SIZE	STD. PACK.	WT. PER 100	
44780LF	1/2"	1	35	----
44781LF	3/4"	1	44	----
44782LF	1"	1	59	----
44783LF	1-1/4"	1	87	----
44784LF	1-1/2"	1	105	----
44785LF	2"	1	150	----

WARNING: This product can expose you to chemicals, including chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

CHROME PLATED BRONZE FITTINGS

CHROME PLATED 90° ELBOW

LEAD FREE

781100

PART #	SIZE	
45102LF	3/8"	----
45103LF	1/2"	----
45104LF	3/4"	----
45105LF	1"	----

CHROME PLATED COUPLING

LEAD FREE

781103

PART #	SIZE	
45412LF	3/8"	----
45413LF	1/2"	----
45435LF	1/2" x 3/8"	----

90° ELBOW

81100

PART #	SIZE	APPROX. WT. LBS.	
45100	1/8″	0.08	----
45101	1/4″	0.12	----
45102	3/8″	0.17	----
45103	1/2″	0.24	----
45104	3/4″	0.34	----
45105	1″	0.61	----
45124	1/2″ x 3/8″	0.58	----
45127	3/4″ x 1/2″	0.80	----

90° STREET ELLS

81116

PART #	SIZE	APPROX. WT. LBS.	
45160	1/8″	0.07	----
45161	1/4″	0.11	----
45162	3/8″	0.18	----
45163	1/2″	0.24	----
45164	3/4″	0.37	----
45165	1"		----

CHROME PLATED 90° ELBOW

LEAD FREE

781116

PART #	SIZE	
45163LF	1/2"	----
45164LF	3/4"	----

CHROME PLATED TEE

LEAD FREE

781101

PART #	SIZE	
45252LF	3/8"	----
45253LF	1/2"	----

45° ELBOW

81124

PART #	SIZE	APPROX. WT. LBS.	
45200	1/8″	0.06	----
45201	1/4″	0.11	----
45202	3/8″	0.13	----
45203	1/2″	0.18	----
45204	3/4″	0.28	----

CROSSES

81102

PART #	SIZE	APPROX. WT. LBS.	
45393	1/2″	0.45	----
45394	3/4″	0.76	----

CHROME PLATED BRONZE FITTINGS

NIPPLES AND FITTINGS

45° ELBOWS

81107

PART #	SIZE	APPROX. WT. LBS.	
45180	1/8"	0.08	----
45181	1/4"	0.13	----
45182	3/8"	0.17	----
45183	1/2"	0.21	----
45184	3/4"	0.32	----
45185	1"	0.52	----

TEES

81101

PART #	SIZE	APPROX. WT. LBS.	
45250	1/8"	0.11	----
45251	1/4"	0.17	----
45252	3/8"	0.25	----
45253	1/2"	0.31	----
45254	3/4"	0.50	----
45255	1"	0.85	----

COUPLINGS

81103

PART #	SIZE	APPROX. WT. LBS.	
45410	1/8"	0.12	----
45411	1/4"	0.11	----
45412	3/8"	0.15	----
45413	1/2"	0.18	----
45414	3/4"	0.28	----
45415	1"	0.45	----
45432	3/8" x 1/4"	0.13	----
45435	1/2" x 3/8"	0.18	----
45438	3/4" x 1/2"	0.23	----
45439	1" x 3/4"	0.44	----

CAPS

81108

PART #	SIZE	APPROX. WT. LBS.	
45470	1/8"	0.04	----
45471	1/4"	0.06	----
45472	3/8"	0.10	----
45473	1/2"	0.13	----
45474	3/4"	0.19	----
45475	1"		----

UNIONS

81104

PART #	SIZE	APPROX. WT. LBS.	
45600	1/8"	0.17	----
45601	1/4"	0.25	----
45602	3/8"	0.37	----
45603	1/2"	0.52	----
45604	3/4"	0.78	----
45605	1"	1.18	----
45606	1-1/4"	1.64	----

HEX BUSHINGS

81110

PART #	SIZE	APPROX. WT. LBS.	
45502	3/8" x 1/4"	0.04	----
45504	1/2" x 1/4"	0.09	----
45505	1/2" x 3/8"	0.08	----
45509	3/4" x 1/2"	0.14	----
45513	1" x 3/4"	0.21	----

PLUGS

PART #	SIZE	APPROX. WT. LBS.	
45652	3/8"	0.06	----
45653	1/2"	0.10	----
45654	3/4"	0.13	----
45655	1"	0.25	----
45657	1-1/2"	0.57	----

USA MADE, LEAD FREE BRONZE FITTINGS

NIPPLES AND FITTINGS

90° ELBOWS

PART #	SIZE	LBS.	
44100DLF	1/8"	0.06	----
44101DLF	1/4"	0.10	----
44102DLF	3/8"	0.15	----
44103DLF	1/2"	0.25	----
44104DLF	3/4"	0.41	----
44105DLF	1"	0.69	----
44106DLF	1-1/4"	1.02	----
44107DLF	1-1/2"	1.36	----
44108DLF	2"	2.14	----
44109DLF	2-1/2"	3.79	----
44110DLF	3"	5.21	----
44112DLF	4"	8.59	----

90° REDUCING ELBOWS

PART #	SIZE	LBS.	
44120DLF	1/4 x 1/8	0.09	----
44121DLF	3/8 x 1/8	0.13	----
44122DLF	3/8 x 1/4	0.13	----
44123DLF	1/2 x 1/4	0.19	----
44124DLF	1/2 x 3/8	0.22	----
44125DLF	3/4 x 1/4	0.31	----
44126DLF	3/4 x 3/8	0.29	----
44127DLF	3/4 x 1/2	0.31	----
44128DLF	1 x 1/4	0.41	----
44129DLF	1 x 3/8	0.39	----
44130DLF	1 x 1/2	0.45	----
44131DLF	1 x 3/4	0.56	----
44132DLF	1 1/4 x 1/2	0.72	----
44133DLF	1 1/4 x 3/4	0.68	----
44134DLF	1 1/4 x 1	0.81	----
44135DLF	1 1/2 x 1/2	0.94	----
44136DLF	1 1/2 x 3/4	0.88	----
44137DLF	1 1/2 x 1	1.02	----
44138DLF	1 1/2 x 1 1/4	1.00	----
44140DLF	2 x 1	1.46	----
44141DLF	2 x 1 1/4	1.48	----
44142DLF	2 x 1 1/2	1.73	----

90° DROP ELBOWS

PART #	SIZE	LBS.	
44839DLF	3/8"	0.25	----
44840DLF	1/2"	0.37	----

90° STREET ELBOWS

PART #	SIZE	LBS.	
44160DLF	1/8"	0.06	----
44161DLF	1/4"	0.11	----
44162DLF	3/8"	0.16	----
44163DLF	1/2"	0.24	----
44164DLF	3/4"	0.38	----
44165DLF	1"	0.66	----
44166DLF	1-1/4"	0.99	----
44167DLF	1-1/2"	1.15	----
44168DLF	2"	2.07	----
44169DLF	2-1/2"	3.79	----
44170DLF	3"	6.38	----

45° ELBOWS

PART #	SIZE	LBS.	
44180DLF	1/8"	0.05	----
44181DLF	1/4"	0.09	----
44182DLF	3/8"	0.14	----
44183DLF	1/2"	0.19	----
44184DLF	3/4"	0.36	----
44185DLF	1"	0.59	----
44186DLF	1-1/4"	0.87	----
44187DLF	1-1/2"	1.13	----
44188DLF	2"	1.65	----
44189DLF	2-1/2"	2.69	----
44190DLF	3"	3.68	----

USA MADE, LEAD FREE BRONZE FITTINGS

NIPPLES AND FITTINGS

45° STREET ELBOWS

PART #	SIZE	LBS.	
44201DLF	1/4"	0.09	----
44202DLF	3/8"	0.12	----
44203DLF	1/2"	0.22	----
44204DLF	3/4"	0.31	----
44205DLF	1"	0.52	----
44206DLF	1-1/4"	0.72	----
44207DLF	1-1/2"	1.05	----
44208DLF	2"	2.04	----

CROSSES

PART #	SIZE	LBS.	
44391DLF	1/4"	0.15	----
44392DLF	3/8"	0.25	----
44393DLF	1/2"	0.38	----
44394DLF	3/4"	0.59	----
44395DLF	1"	0.94	----
44396DLF	1-1/4"	1.43	----
44397DLF	1-1/2"	1.89	----
44398DLF	2"	2.95	----

If a man does not keep pace with his companions, perhaps it is because he hears a different drummer. Let him step to the music which he hears, however measured or far away.

- Henry David Thoreau

TEES

PART #	SIZE	LBS.	
44250DLF	1/8"	0.09	----
44251DLF	1/4"	0.13	----
44271DLF	1/4" x 1/4" x 3/8"	0.17	----
44270DLF	1/4" x 1/4" x 1/8"	0.12	----
44252DLF	3/8"	0.21	----
44281DLF	3/8" x 3/8" x 1/2"	0.24	----
44273DLF	3/8" x 3/8" x 1/4"	0.17	----
44253DLF	1/2"	0.35	----
44280DLF	1/2" x 1/2" x 3/4"	0.38	----
44276DLF	1/2" x 1/2" x 1/4"	0.23	----
44254DLF	3/4"	0.55	----
44289DLF	3/4" x 3/4" x 1"	0.55	----
44286DLF	3/4" x 3/4" x 1/2"	0.41	----
44283DLF	3/4" x 3/4" x 3/8"	0.40	----
44282DLF	3/4" x 3/4" x 1/4"	0.35	----
44288DLF	3/4" x 1/2" x 3/4"	0.42	----
44287DLF	3/4" x 1/2" x 1/2"	0.40	----
44255DLF	1"	0.92	----
44298DLF	1" x 1" x 3/4"	0.58	----
44291DLF	1" x 1" x 1/2"	0.56	----
44295DLF	1" x 1" x 1/4"	0.69	----
44297DLF	1" x 3/4" x 1"	0.58	----
44296DLF	1" x 3/4" x 3/4"	0.46	----
44294DLF	1" x 1/2" x 1"	0.51	----
44256DLF	1-1/4"	1.34	----
44306DLF	1-1/4" x 1-1/4" x 1"	0.91	----
44303DLF	1-1/4" x 1-1/4" x 3/4"	0.93	----
44300DLF	1-1/4" x 1-1/4" x 1/2"	0.93	----
44310DLF	1-1/4" x 1" x 1-1/4"	0.94	----
44302DLF	1-1/4" x 3/4" x 3/4"	0.92	----
44257DLF	1-1/2"	1.82	----
44318DLF	1-1/2" x 1-1/2" x 1"	1.20	----
44316DLF	1-1/2" x 1-1/2" x 3/4"	1.12	----
44258DLF	2"	2.80	----
44334DLF	2" x 2 x 1-1/4"	1.91	----
44330DLF	2" x 2" x 1"	1.70	----
44328DLF	2" x 2" x 3/4"	1.67	----
44259DLF	2-1/2"	4.70	----
44260DLF	3"	6.69	----
44350DLF	3" x 2" x 2"	3.40	----
44261DLF	4"	11.35	----

USA MADE, LEAD FREE BRONZE FITTINGS

NIPPLES AND FITTINGS

STREET TEES

PART #	SIZE	LBS.	
44364DLF	3/4"	0.46	----

45° Y-BRANCHES

PART #	SIZE	LBS.	
44963DLF	1/2"	0.30	----
44964DLF	3/4"	0.65	----
44965DLF	1"	0.97	----

COUPLINGS

PART #	SIZE	LBS.	
44410DLF	1/8"	0.06	----
44411DLF	1/4"	0.09	----
44412DLF	3/8"	0.13	----
44413DLF	1/2"	0.21	----
44414DLF	3/4"	0.32	----
44415DLF	1"	0.53	----
44416DLF	1-1/4"	0.73	----
44417DLF	1-1/2"	0.97	----
44418DLF	2"	1.51	----
44419DLF	2-1/2"	2.20	----
44420DLF	3"	3.63	----

REDUCING COUPLINGS

PART #	SIZE	LBS.	
44430DLF	1/4" x 1/8"	0.08	----
44431DLF	3/8" x 1/8"	0.10	----
44432DLF	3/8" x 1/4"	0.11	----
44433DLF	1/2" x 1/8"	0.14	----
44434DLF	1/2" x 1/4"	0.16	----
44435DLF	1/2" x 3/8"	0.17	----
44436DLF	3/4" x 1/4"	0.20	----
44437DLF	3/4" x 3/8"	0.23	----
44438DLF	3/4" x 1/2"	0.26	----
44440DLF	1" x 3/8"	0.40	----
44441DLF	1" x 1/2"	0.38	----
44442DLF	1" x 3/4"	0.43	----
44444DLF	1-1/4" x 1/2"	0.60	----
44445DLF	1-1/4" x 3/4"	0.57	----
44446DLF	1-1/4" x 1"	0.65	----
44447DLF	1-1/2" x 1/2"	0.77	----
44448DLF	1-1/2" x 3/4"	0.74	----
44449DLF	1-1/2" x 1"	0.83	----
44450DLF	1-1/2" x 1-1/4"	0.87	----
44458DLF	2" x 1/2"	2.03	----
44451DLF	2" x 3/4"	1.25	----
44452DLF	2" x 1"	1.19	----
44453DLF	2" x 1-1/4"	1.22	----
44454DLF	2" x 1-1/2"	1.28	----
44461DLF	2-1/2" x 1-1/2"	1.94	----
44462DLF	2-1/2" x 2"	2.37	----
44456DLF	3" x 2"	2.46	----
44463DLF	3" x 2-1/2"	3.82	----

Health is the greatest gift, contentment the greatest wealth, faithfulness the best relationship.

- Buddha

USA MADE, LEAD FREE BRONZE FITTINGS

NIPPLES AND FITTINGS

CAPS

PART #	SIZE	LBS.	
44470DLF	1/8"	0.03	----
44471DLF	1/4"	0.06	----
44472DLF	3/8"	0.09	----
44473DLF	1/2"	0.13	----
44474DLF	3/4"	0.21	----
44475DLF	1"	0.35	----
44476DLF	1-1/4"	0.52	----
44477DLF	1-1/2"	0.65	----
44478DLF	2"	1.14	----
44480DLF	3"	2.64	----

STANDARD UNIONS

PART #	SIZE	LBS.	
44601DLF	1/4"	0.27	----
44602DLF	3/8"	0.39	----
44603DLF	1/2"	0.44	----
44604DLF	3/4"	0.59	----
44605DLF	1"	0.90	----
44606DLF	1-1/4"	1.33	----
44607DLF	1-1/2"	1.80	----

Keep your face always toward the sunshine - and shadows will fall behind you.

- Walt Whitman

HEX BUSHINGS

PART #	SIZE	LBS.	
44510DLF	1" x 1/4"	0.28	----
44511DLF	1" x 3/8"	0.26	----
44512DLF	1" x 1/2"	0.30	----
44513DLF	1" x 3/4"	0.21	----
44514DLF	1-1/4" x 1/4"	0.34	----
44515DLF	1-1/4" x 3/8"	0.29	----
44516DLF	1-1/4" x 1/2"	0.39	----
44517DLF	1-1/4" x 3/4"	0.43	----
44518DLF	1-1/4" x 1"	0.42	----
44519DLF	1-1/2" x 1/4"	0.29	----
44520DLF	1-1/2" x 3/8"	0.44	----
44521DLF	1-1/2" x 1/2"	0.51	----
44522DLF	1-1/2" x 3/4"	0.54	----
44523DLF	1-1/2" x 1"	0.57	----
44524DLF	1-1/2" x 1-1/4"	0.46	----
44527DLF	2" x 1/2"	1.10	----
44528DLF	2" x 3/4"	0.77	----
44529DLF	2" x 1"	0.77	----
44530DLF	2" x 1-1/4"	0.88	----
44531DLF	2" x 1-1/2"	0.71	----
44532DLF	2-1/2" x 1"	1.19	----
44534DLF	2-1/2" x 1-1/2"	1.15	----
44535DLF	2-1/2" x 2"	1.12	----
44538DLF	3" x 2"	1.82	----
44539DLF	3" x 2-1/2"	2.11	----
44541DLF	4" x 2"	3.86	----

COUNTERSUNK PLUGS

PART #	SIZE	LBS.	
44633DLF	1/2"	0.06	----
44634DLF	3/4"	0.11	----
44635DLF	1"	0.22	----
44636DLF	1-1/4"	0.33	----
44637DLF	1-1/2"	0.50	----
44638DLF	2"	0.88	----
44639DLF	2-1/2"	1.56	----
44640DLF	3"	2.47	----
44641DLF	4"	3.21	----

REGULAR PLUGS

PART #	SIZE	LBS.	
44653DLF	1/2"	0.10	----
44654DLF	3/4"	0.13	----
44655DLF	1"	0.22	----
44656DLF	1-1/4"	0.32	----
44657DLF	1-1/2"	0.47	----
44658DLF	2"	0.68	----
44659DLF	2-1/2"	1.26	----
44660DLF	3"	1.49	----
44662DLF	4"	3.20	----

SOLID PLUGS

PART #	SIZE	LBS.	
44672DLF	3/8"	0.06	----
44673DLF	1/2"	0.12	----
44674DLF	3/4"	0.18	----
44675DLF	1"	0.36	----
44676DLF	1-1/4"	0.63	----
44677DLF	1-1/2"	0.84	----
44678DLF	2"	1.27	----

Once I knew only darkness and stillness... my life was without past or future... but a little word from the fingers of another fell into my hand that clutched at emptiness, and my heart leaped to the rapture of living.

- Helen Keller

USA EXTRA HEAVY FITTINGS

EXTRA HEAVY ELBOWS

PART #	SIZE	LBS.	
43101	1/4"	0.17	----
43102	3/8"	0.29	----
43103	1/2"	0.47	----
43104	3/4"	0.67	----
43105	1"	1.31	----
43106	1-1/4"	1.81	----
43107	1-1/2"	2.60	----
43108	2"	3.54	----
43110	2-1/2"	5.58	----
43109	3"	8.20	----

EXTRA HEAVY STREET ELBOWS

PART #	SIZE	LBS.	
43165	1"	0.85	----
43167	1-1/2"	2.10	----

EXTRA HEAVY 45° ELBOWS

PART #	SIZE	LBS.	
43183	1/2"	0.40	----
43184	3/4"	0.61	----
43185	1"	0.96	----
43186	1-1/4"	1.54	----
43187	1-1/2"	2.10	----
43188	2"	3.21	----
43189	2-1/2"	5.00	----
43190	3"	7.25	----

USA EXTRA HEAVY BRONZE FITTINGS

NIPPLES AND FITTINGS

EXTRA HEAVY TEES

PART #	SIZE	LBS.	
43251	1/4″	0.21	----
43252	3/8″	0.35	----
43253	1/2″	0.64	----
43276	1/2" x 1/2" x 1/4"	0.51	----
43254	3/4″	1.05	----
43255	1″	1.56	----
43298	1" x 1" x 3/4"	1.30	----
43291	1" x 1" x 1/2	1.16	----
43256	1-1/4″	2.43	----
43257	1-1/2″	3.15	----
43258	2″	5.05	----
43259	3″	7.55	----

EXTRA HEAVY COUPLINGS

PART #	SIZE	LBS.	
43411	1/4″	0.15	----
43412	3/8″	0.24	----
43413	1/2″	0.36	----
43414	3/4″	0.57	----
43438	3/4" x 1/2"	0.45	----
43415	1″	0.91	----
43442	1" x 3/4"	0.70	----
43441	1" x 1/2"	0.75	----
43416	1-1/4"	1.37	----
43446	1-1/4" x 1"	1.22	----
43417	1-1/2"	1.79	----
43450	1-1/2" x 1-1/4"	1.67	----
43449	1-1/2" x 1"	1.45	----
43418	2"	2.76	----
43454	2" x 1-1/2"	2.30	----
43419	2-1/2"	4.10	----

EXTRA HEAVY CROSSES

PART #	SIZE	LBS.	
43393	1/2″	0.71	----
43394	3/4″	1.24	----
43395	1″	1.95	----
43396	1-1/4″	2.92	----
43397	1-1/2″	4.06	----
43398	2″	5.75	----

EXTRA HEAVY CAPS

PART #	SIZE	LBS.	
43473	1/2″	0.23	----
43474	3/4″	0.37	----
43475	1″	0.60	----
43476	1-1/4″	1.05	----
43477	1-1/2″	1.24	----
43478	2″	2.09	----

EXTRA HEAVY UNIONS

PART #	SIZE	LBS.	
43601	1/4"	0.35	----
43602	3/8"	0.50	----
43603	1/2"	0.66	----
43604	3/4"	1.05	----
43605	1"	1.65	----
43606	1-1/4"	2.36	----
43607	1-1/2"	2.95	----
43608	2"	3.95	----
43609	2-1/2"	5.65	----
43610	3"	8.80	----

CLEANOUT PLUGS/ DROP EAR ELBOWS

NIPPLES AND FITTINGS

• Southern Code

CAST BRASS SQUARE HEAD CLEANOUT PLUG

PART #	SIZE	BOX/CASE	
970300	1-1/2"	100/200	----
970301	2"	100/200	----
970302	2-1/2"	50/200	----
970303	3"	20/160	----
970304	3-1/2"	20/120	----
970305	4"	10/80	----
970330	5"	10/60	----
970331	6"	10/40	----
970332	8"	5/20	----
970333	10"	1/1	----

• Southern Code

CAST BRASS COUNTERSUNK HEAD CLEANOUT PLUG

PART #	SIZE	BOX/CASE	
970306	1-1/2"	100/200	----
970307	2"	100/200	----
970308	2-1/2"	100/200	----
970309	3"	50/200	----
970310	3-1/2"	20/160	----
970311	4"	20/120	----
970312	5"	10/60	----
970313	6"	10/40	----
970314	8"	5/20	----

CAST BRASS COUNTERSUNK CLEANOUT W 1/4-20 TAP

PART #	SIZE	BOX/CASE	
970700	1-1/2"	1/1	----
970701	2"	1/1	----
970702	2-1/2"	1/1	----
970703	3"	1/1	----
970704	3-1/2"	1/1	----
970705	4"	1/1	----
970706	5"	1/1	----
970707	6"	1/1	----

DROP EAR ELBOWS

• Lead Free Brass

• Lead Free Bronze

PART #	SWT X FIP	
44840LF	1/2 x 1/2 Bronze	----
44841LF	1/2 x 1/2 Brass	----
44842LF	3/4 x 1/2 Brass	----
44843LF	3/4 x 3/4 Brass	----

• Lead Free Brass

PART #	SWT X SWT	
44844LF	1/2 x 1/2	----

• Lead Free Bronze

PART #	PEX X FIP	
44845LF	1/2 x 1/2	----

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRONZE/ STEEL INSERT FITTINGS

NIPPLES AND FITTINGS

BRONZE INSERT FITTINGS

150 PSI Genuine red brass - for plastic pipe

• Not Lead Free

HEX MALE ADAPTERS

(Barb x Male Pipe)

PART #	BARB X MALE	
973925	3/4" x 3/4"	----
973927	1" x 1"	----
973930	1" x 1-1/4"	----
973929	1-1/4" x 1"	----
973928	1-1/4" x 1-1/4"	----
973948	1-1/2" x 1-1/2"	----
973949	2" x 2"	----

BRONZE TEES ALL BARB

PART #	SIZE	
973965	3/4"	----
973966	1"	----
973967	1-1/4"	----

ELBOWS

(Barb x Male Pipe)

PART #	SIZE	
973980	3/4" x 3/4"	----
973981	1" x 3/4"	----
973982	1" x 1"	----

ELBOWS

(Barb x Barb)

PART #	HOSE SIZE	
973975	3/4"	----
973976	1"	----
973977	1-1/4" x 1"	----
973978	1-1/4"	----
973979	1-1/2"	----

STEEL INSERT FITTINGS FOR PLASTIC PIPE

MALE ADAPTER

• Galvanized

(Barb x Male Pipe)

PART #	SIZE	BOX/CASE	
973906	1/2"	25/100	----
973907	3/4"	25/10	----
973908	1"	16/48	----
973909	1-1/4"	12/36	----
973910	1-1/2"	6/36	----
973911	2"	5/25	----
973912	2-1/2"	1/3	----
973913	3"	1/3	----
973914	4"	1/3	----

(Insert x NPT)

PART #	SIZE	
974264	3/4 x 1/2	----
974265	1 x 3/4	----
974266	1-1/4 x 1	----
974267	1-1/2 x 1-1/4	----

COUPLINGS

PART #	SIZE	BOX/CASE	
973900	1/2	30/120	----
973901	3/4	20/100	----
973902	1	20/100	----
973903	1-1/4	16/64	----
973904	1-1/2	12/48	----
973905	2	5/25	----

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STAINLESS STEEL #304

#304 INSERT X MALE PIPE

- For coiled plastic pipe to submersible pump

PART #	SIZE	
973947SS	1/2 x 1/2	----
973925SS	3/4 x 3/4	----
973926SS	1 x 3/4	----
973927SS	1 x 1	----
973930SS	1 x 1-1/4	----
973928SS	1-1/4 x 1-1/4	----
973948SS	1-1/2 x 1-1/2	----
973949SS	2 x 2	----

#304 INSERT X MIP ELBOW

- Hydrant elbow

PART #	SIZE	
973980SS	3/4 x 3/4	----
973982SS	1 x 1	----
973985SS	1-1/4 x 1-1/4	----

LEAD FREE BRONZE INSERT FITTINGS

- NSF Approved
- ANSI 61-8

INSERT X INSERT

PART #	SIZE	
973960LF	1/2	----
973961LF	3/4	----
973962LF	1	----
973963LF	1-1/4	----

- NSF Approved
- ANSI 61-8

INSERT TEE

PART #	SIZE	
973965LF	3/4	----
973966LF	1	----
973967LF	1-1/4	----

- NSF Approved
- ANSI 61-8

INSERT X MALE BRANCH TEE

PART #	SIZE	
973969LF	3/4	----
973970LF	1 x 3/4	----
973971LF	1	----

- NSF Approved
- ANSI 61-8

INSERT X INSERT ELBOW

PART #	SIZE	
973975LF	3/4	----
973976LF	1	----

WELL COUPLINGS

304 SS DROP WELL COUPLINGS STANDARD

PART #	SIZE	
62415DC	1	----
62416DC	1-1/4	----
62417DC	1-1/2	----
62418DC	2	----

HEAVY WALLED SS 304 DROP WELL COUPLINGS

PART #	SIZE	
62415HDDC	1	----
62416HDDC	1-1/4	----
62417HDDC	1-1/2	----
62418HDDC	2	----

#304 STAINLESS STEEL MERCHANT COUPLINGS

PART #	SIZE	
61775	1	----
61776	1-1/4	----
61777	1-1/2	----
61778	2	----

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SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS

STAINLESS STEEL NIPPLES

SCHEDULE 40 WELDED

Stainless steel pipe nipples are manufactured from stainless steel pipe that conforms to specification ASTM A312/ SA312.

All stainless steel nipples conform to specification ASTM A733. Threads conform to the requirements of ANSI B1.20.1.

SCHEDULE 80 SEAMLESS

- **SEAMLESS FOR UNRESTRICTED FLOW**
- **USE WITH AIR, WATER, OIL, NATURAL GAS, STEAM**
- **FITTINGS: USE THREADED CLASS 3000 HIGH-PRESSURE STAINLESS STEEL.**
- **ASTM A733** • **ASTM A312** • **ANSI/ ASME B1.20.1**
- **PSI 3000**

304

The basic alloy. Type 304 (18-8) is an austenitic steel possessing a minimum of 18% chromium and 8% nickel, combined with a maximum of 0.08% carbon. It is a nonmagnetic steel which cannot be hardened by heat treatment, but instead. must be cold worked to obtain higher tensile strengths.

Because of its ability to withstand the corrosive action of various acids found in fruits, meats, milk, and vegetables,
Type 304 is especially suited for all types of dairy equipment piping and valves, the brewing industry, the citrus and fruit juice industry, and in food processing applications. Also used for the dye tanks, pipelines buckets, dippers, etc. that come in contact with the lormic, acetic, and other organic acids used in the dyeing industry.

In the marine environment, because of it slightly higher strength and wear resistance than type 316 it is also used for nuts, bolts, screws, and other fasteners. It is also used for springs, cogs, and other components where both wear and corrosion resistance is needed.

Both #304 and #316 nipples are NSF/ANSI 372 and NSF/ANSI 61 compliant.

316

For severe environments. Of course, there are many industrial processes that require a higher level of resistance to corrosion than Type 304 can offer. For these applications, Type 316 is the answer.

In type 316, the nickel content is increased slightly. What distinguishes Type 316 from Type 304 is the addition of molybdenum up to a maximum of 3%.

Molybdenum increases the corrosion resistance of this chromium-nickel alloy to withstand attack by many industrial chemicals and solvents, and, in particular, inhibits pitting caused by chlorides. As such, molybdenum is one of the single most useful alloying additives in the fight against corrosion.

Type 316 can withstand corrosive attack by sodium and calcium brines, hypochlorite solutions, phosphoric acid; and the sulfite liquors and sulfurous acids used in the paper pulp industry. This alloy, therefore, is specified for industrial equipment that handles the corrosive process chemicals used to produce inks, rayons, photographic chemicals, paper, textiles, bleaches, and rubber. Type 316 is also used extensively for surgical implants within the hostile environment of the body.

Type 316 is the main stainless used in the marine environment, with the exception of fasteners and other items where strength and wear resistance are needed, then Type 304 (18-8) is typically used.

SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS

#304 | #316

1/8" - 27

1/8" DIAMETER
SCH 40 WELDED

PART # 304 S.S.		LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
48001	----	X Close (3/4")	25	0.01	49001	----
48002	----	x 1-1/2"	25	0.03	49002	----
48003	----	x 2"	25	0.04	49003	----
48004	----	x 2-1/2"	25	0.05	49004	----
48005	----	x 3"	25	0.06	49005	----
48006	----	x 3-1/2"	25	0.07	49006	----
48007	----	x 4"	25	0.07	49007	----
48008	----	x 4-1/2"	25	0.09	49008	----
48009	----	x 5"	25	0.10	49009	----
48010	----	x 5-1/2"	25	0.11	49010	----
48011	----	x 6"	25	0.12	49011	----
48015	----	x 10"	1	0.19		
		x 12"	1	0.24	49017	----

1/4"-18

1/4" DIAMETER
SCH 40 WELDED

PART # 304 S.S.		LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
48020	----	X Close (7/8")	25	0.02	49020	----
48021	----	x 1-1/2"	25	0.04	49021	----
48022	----	x 2"	25	0.06	49022	----
48023	----	x 2-1/2"	25	0.07	49023	----
48024	----	x 3"	25	0.09	49024	----
48025	----	x 3-1/2"	25	0.11	49025	----
48026	----	x 4"	25	0.13	49026	----
48027	----	x 4-1/2"	25	0.14	49027	----
48028	----	x 5"	25	0.16	49028	----
48029	----	x 5-1/2"	25	0.18	49029	----
48030	----	x 6"	25	0.19	49030	----
48031	----	x 7"	1	0.22	49031	----
48032	----	x 8"	1	0.25	49032	----
		x 9"	1	0.31	49033	----
48034	----	x 10"	1	0.35	49034	----
		x 11"	1	0.40	49035	----
48036	----	x 12"	1	0.44	49036	----
		x 14"	1	0.46	49037	----
		x 16"	1	0.47	49038	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS

#304

3/8"-18

3/8" DIAMETER
SCH 40 WELDED

#316

PART # 304 S.S.		LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
48040	----	X Close (1")	25	0.03	49040	----
48041	----	x 1-1/2"	25	0.06	49041	----
48042	----	x 2"	25	0.07	49042	----
48043	----	x 2-1/2"	25	0.10	49043	----
48044	----	x 3"	25	0.12	49044	----
48045	----	x 3-1/2"	25	0.15	49045	----
48046	----	x 4"	25	0.17	49046	----
48047	----	x 4-1/2"	25	0.19	49047	----
48048	----	x 5"	25	0.22	49048	----
48049	----	x 5-1/2"	25	0.23	49049	----
48050	----	x 6"	25	0.26	49050	----
48052	----	x 8"	1	0.34	49052	----
48053	----	x 9"	1			
48054	----	x 10"	1	0.43	49054	----
48056	----	x 12"	1			

1/2" - 14

1/2" DIAMETER
SCH 40 WELDED

PART # 304 S.S.		LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
48060	----	X Close 1-1/8"	25	0.05	49060	----
48061	----	x 1-1/2"	25	0.07	49061	----
48062	----	x 2"	25	0.10	49062	----
48063	----	x 2-1/2"	25	0.14	49063	----
48064	----	x 3"	25	0.18	49064	----
48065	----	x 3-1/2"	25	0.20	49065	----
48066	----	x 4"	25	0.25	49066	----
48067	----	x 4-1/2"	25	0.28	49067	----
48068	----	x 5"	25	0.31	49068	----
48069	----	x 5-1/2"	25	0.34	49069	----
48070	----	x 6"	25	0.39	49070	----
48071	----	x 7"	1	0.41		
48072	----	x 8"	1	0.52	49072	----
48073	----	x 9"	1	0.54		
48074	----	10"	1	0.58	49074	----
48075	----	x 11"	1	0.64		
48076	----	x 12"	1	0.69		

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SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS

#304

3/4" - 14

3/4" DIAMETER
SCH 40 WELDED

#316

PART # 304 S.S.		LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
48080	----	X Close (1-3/8")	25	0.08	49080	----
48081	----	x 1-1/2"	25	0.13	49081	----
48082	----	x 2"	25	0.14	49082	----
48083	----	x 2-1/2"	25	0.17	49083	----
48084	----	x 3"	25	0.22	49084	----
48085	----	x 3-1/2"	25	0.27	49085	----
48086	----	x 4"	25	0.32	49086	----
48087	----	x 4-1/2"	25	0.38	49087	----
48088	----	x 5"	25	0.40	49088	----
48089	----	x 5-1/2"	25	0.42	49089	----
48090	----	x 6"	25	0.48	49090	----
48091	----	x 7"	1	0.45		
48092	----	x 8"	1	0.67	49092	----
48094	----	x 10"	1	0.94	49094	----
48096	----	x 12"	1	1.03		

1" - 11 1/2

1" DIAMETER
SCH 40 WELDED

PART # 304 S.S.		LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
48100	----	X Close (1-1/2")	25	0.13	49100	----
48101	----	x 2"	25	0.20	49101	----
48102	----	x 2-1/2"	25	0.25	49102	----
48103	----	x 3"	25	0.33	49103	----
48104	----	x 3-1/2"	25	0.40	49104	----
48105	----	x 4"	25	0.47	49105	----
48106	----	x 4-1/2"	25	0.53	49106	----
48107	----	x 5"	25	0.55	49107	----
48108	----	x 5-1/2"	25	0.60	49108	----
48109	----	x 6"	25	0.71	49109	----
48110	----	x 7"	1	0.57	49110	----
48111	----	x 8"	1	1.02	49111	----
48113	----	x 10"	1	1.16	49113	----
48115	----	x 12"	1	1.31		

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SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS

1 1/4" - 11 1/2

1-1/4" DIAMETER
SCH 40 WELDED

PART # 304 S.S.		LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
48120	----	X Close (1-5/8")	10	0.17	49120	----
48121	----	x 2"	10	0.23	49121	----
48122	----	x 2-1/2"	10	0.35	49122	----
48123	----	x 3"	10	0.46	49123	----
48124	----	x 3-1/2"	10	0.52	49124	----
48125	----	x 4"	10	0.65	49125	----
48126	----	x 4-1/2"	10	0.53	49126	----
48127	----	x 5"	10	0.60	49127	----
48128	----	x 5-1/2"	10	0.61	49128	----
48129	----	x 6"	10	0.71	49129	----
48131	----	x 8"	1	1.34		
48135	----	x 12"	1	1.54		

1-1/2" - 11 1/2

1-1/2" DIAMETER
SCH 40 WELDED

PART # 304 S.S.		LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
48140	----	X Close x 1-3/4"	10	0.25	49140	----
48141	----	x 2"	10	0.32	49141	----
48142	----	x 2-1/2"	10	0.41	49142	----
48143	----	x 3"	10	0.52	49143	----
48144	----	x 3-1/2"	10	0.62	49144	----
48145	----	x 4"	10	0.73	49145	----
48146	----	x 4-1/2"	10	0.86	49146	----
48147	----	x 5"	10	0.95	49147	----
48148	----	x 5-1/2"	10	1.01	49148	----
48149	----	x 6"	10	1.19	49149	----
48151	----	x 8"	1	1.63	49151	----
48152	----	x 9"	1	1.88		
48153	----	x 10"	1	2.28	49153	----
48155	----	x 12"	1	2.43		

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SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS

2" DIAMETER
SCH 40 WELDED

PART # 304 S.S.		LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
48160	----	X Close (2")	10	0.37	49160	----
48161	----	x 2-1/2"	10	0.54	49161	----
48162	----	x 3"	10	0.65	49162	----
48163	----	x 3-1/2"	10	0.88	49163	----
48164	----	x 4"	10	1.02	49164	----
48165	----	x 4-1/2"	10	1.16	49165	----
48166	----	x 5"	10	1.29	49166	----
48167	----	x 5-1/2"	10	1.46	49167	----
48168	----	x 6"	10	1.57	49168	----
48169	----	x 7"	1	1.92	49169	----
48170	----	x 8"	1	2.01	49170	----
48171	----	x 9"	1	2.55		
48172	----	x 10"	1	2.69		
48174	----	x 12"	1	2.89		

2-1/2" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LENGTH	BOX	APPROX. WT. LBS.	
48180	X Close (2-1/2")	10	0.64	----
48181	x 3"			----
48187	x 6"	1	2.37	----
48193	x 12"	1	4.85	----

3" DIAMETER
SCH 40 WELDED

PART # 304 S.S.		LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
48200	----	X Close (2-5/8")	10	0.95	49200	----
48201	----	x 3"	10	1.32	49201	----
48203	----	x 4"	10	1.66	49203	----
48205	----	x 5"	5	1.72	49205	----
48207	----	x 6"	5	1.88	49207	----
48209	----	x 8"	1	1.91	49209	----
48213	----	x 12"	1	2.12	49213	----

4" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48220	----	X Close (2-7/8")	8	1.15	49220	----
		x 4"	1	2.98	49223	----
48227	----	x 6"	1	4.10	49234	----
		x 8"	1	5.95	49236	----
		x 12"	1	9.25	49240	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STAINLESS STEEL FITTINGS

150# 304 & 316 Stainless Steel Fittings

Our high quality standard pattern 150lb rated stainless steel threaded fittings are manufactured to the highest standards. All stainless steel fittings are monitored by our quality control personnel for strict compliance with applicable standards and specifications.

These stainless steel pipe fittings are excellent for uses that involve chemicals or liquids that may be corrosive. Along with fighting corrosion, a stainless steel pipe fitting will prevent contamination making it useful to many professionals.

- Use with air, water, oil, natural gas, steam
- NPT and FNPT threads conform to ASME B1.20.1
- Maximum Pressure: 300 psi @ 72 F;150 psi @ 366 F for steam
- Maximum Steam Pressure: 150 psi
- Material Conforms to ASTM A-351. Class 150 Pressure Ratings
- Manufacturing facility is ISO 9001:2008
- 304 Stainless Steel is economically priced, chromium-nickel material that offers very good corrosion resistance. 316 Stainless Steel has higher nickel content and contains molybdenum for even better corrosion resistance.

HIGH PRESSURE 1000# BARSTOCK

1000#

- Stainless bar stock dimensions conform to MSS SP-114
- NPT threads conform to ASME B1.20.1
- Manufacturing facility is ISO 9001:2008
- Fittings meet applicable chemical & physical properties

HIGH PRESSURE 3000# FORGED

A182 and ANSI/ASME B16.11.

3000#

- Use with air, water, oil, natural gas, steam
- Maximum Pressure:

Type 304 SS: 2,570 psi @ 72°F;
1,965 psi @ 350°F for steam

Type 316 SS: 3,000 psi @ 72°F
2810 psi @ 350°F for steam

- Pipe Nipples and Pipe: Use threaded Schedule 80 thickwall stainless steel

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

90° ELBOW
304 & 316 150#

PART # 304 S.S		SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62100	----	1/8"	25	0.06	63100	----
62101	----	1/4"	25	0.06	63101	----
62102	----	3/8"	25	0.11	63102	----
62103	----	1/2"	25	0.13	63103	----
62104	----	3/4"	25	0.20	63104	----
62105	----	1"	10	0.33	63105	----
62106	----	1-1/4"	10	0.55	63106	----
62107	----	1-1/2"	5	0.77	63107	----
62108	----	2"	5	1.10	63108	----
62109	----	2-1/2"	1	2.09	63109	----
62110	----	3"	1	2.84	63110	----
62112	----	4"	1	5.00	63112	----

90° STREET ELBOW
304 & 316 150#

PART # 304 S.S		SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62160	----	1/8"	25	0.04	63160	----
62161	----	1/4"	25	0.07	63161	----
62162	----	3/8"	25	0.09	63162	----
62163	----	1/2"	25	0.15	63163	----
62164	----	3/4"	25	0.24	63164	----
62165	----	1"	10	0.31	63165	----
62166	----	1-1/4"	10	0.51	63166	----
62167	----	1-1/2"	5	0.84	63167	----
62168	----	2"	5	1.26	63168	----
62169	----	3"	1	4.16	63170	----
		4"	1	7.61	63171	----

45° ELBOW
304 & 316 150#

PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62180	----	1/8"	25	0.04	63180	----
62181	----	1/4"	25	0.07	63181	----
62182	----	3/8"	25	0.09	63182	----
62183	----	1/2"	25	0.13	63183	----
62184	----	3/4"	25	0.20	63184	----
62185	----	1"	10	0.33	63185	----
62186	----	1-1/4"	10	0.49	63186	----
62187	----	1-1/2"	5	0.66	63187	----
62188	----	2"	5	1.14	63188	----
62189	----	2-1/2"	1	2.82		
62190	----	3"	1	2.91	63190	----
62191	----	4"	1	5.05	63192	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

TEE
304 & 316 150#

PART # 304 S.S		SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62250	----	1/8"	25	0.07	63250	----
62251	----	1/4"	25	0.07	63251	----
62252	----	3/8"	25	0.11	63252	----
62253	----	1/2"	25	0.20	63253	----
62254	----	3/4"	25	0.29	63254	----
62255	----	1"	10	0.42	63255	----
62256	----	1-1/4"	5	0.66	63256	----
62257	----	1-1/2"	5	0.99	63257	----
62258	----	2"	3	1.43	63258	----
62259	----	2-1/2"	1	1.43		
62260	----	3"	1	3.66	63260	----
		4"	1	7.19	63261	----

CROSS
304 & 316 150#

PART # 304 S.S		SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
		1/8"	25	0.06	63390	----
62391	----	1/4"	25	0.09	63391	----
62392	----	3/8"	25	0.13	63392	----
62393	----	1/2"	25	0.29	63393	----
62394	----	3/4"	10	0.44	63394	----
62395	----	1"	10	0.74	63395	----
62396	----	1-1/4"	5	1.25	63396	----
62397	----	1-1/2"	5	1.53	63397	----
62398	----	2"	1	2.28	63398	----
		3"	1	5.46	63400	----
		4"	1	9.41	63401	----

HEX NIPPLE
304 & 316 150#

PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62720	----	1/8"	1	0.02	63720	----
62721	----	1/4"	1	0.04	63721	----
62722	----	3/8"	1	0.07	63722	----
62723	----	1/2"	1	0.11	63723	----
62724	----	3/4"	1	0.18	63724	----
62725	----	1"	1	0.22	63725	----
62726	----	1-1/4"	1	0.37	63726	----
62727	----	1-1/2"	1	0.46	63727	----
62728	----	2"	1	0.61	63728	----

REDUCING HEX NIPPLE
304 & 316 150#

PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62740	----	1/4" x 1/8"	1	0.04	63740	----
62741	----	3/8" x 1/8"	1	0.07	63741	----
62742	----	3/8" x 1/4"	1	0.07	63742	----
62744	----	1/2" x 1/4"	1	0.09	63744	----
62745	----	1/2" x 3/8"	1	0.11	63745	----
62747	----	3/4" x 1/4"	1	0.15	63747	----
62748	----	3/4" x 3/8"	1	0.15	63748	----
62749	----	3/4" x 1/2"	1	0.15	63749	----

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304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

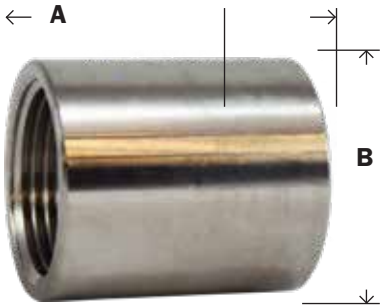
COUPLING
304 & 316 150#

PART # 304 S.S		SIZE*	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62410	----	1/8"	25	0.03	63410	----
62411	----	1/4"	25	0.06	63411	----
62412	----	3/8"	25	0.07	63412	----
62413	----	1/2"	25	0.13	63413	----
62414	----	3/4"	25	0.18	63414	----
62415	----	1"	25	0.24	63415	----
62416	----	1-1/4"	10	0.44	63416	----
62417	----	1-1/2"	10	0.51	63417	----
62418	----	2"	5	0.79	63418	----
62419	----	2-1/2"	1	1.28	63419	----
62420	----	3"	1	1.87	63420	----
62421	----	4"	1	2.80	63421	----

REDUCING COUPLING
304 & 316 150#

PART # 304 S.S		SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62430	----	1/4" x 1/8"	25	0.04	63430	----
62431	----	3/8" x 1/8"	25	0.04	63431	----
62432	----	3/8" x 1/4"	25	0.04	63432	----
62433	----	1/2" x 1/8"	25	0.09	63433	----
62434	----	1/2" x 1/4"	25	0.09	63434	----
62435	----	1/2" x 3/8"	25	0.09	63435	----
62455	----	3/4" x 1/8"	25	0.13	63455	----
62436	----	3/4" x 1/4"	25	0.11	63436	----
62437	----	3/4" x 3/8"	25	0.13	63437	----
62438	----	3/4" x 1/2"	25	0.15	63438	----
		1" x 1/4"	25	0.25	63459	----
62440	----	1" x 3/8"	25	0.22	63440	----
62441	----	1" x 1/2"	25	0.24	63441	----
62442	----	1" x 3/4"	25	0.24	63442	----
62445	----	1-1/4" x 3/4"	10	0.33	63445	----
62446	----	1-1/4" x 1"	10	0.35	63446	----
62447	----	1-1/2" x 1/2"	10	0.40	63447	----
62448	----	1-1/2" x 3/4"	10	0.42	63448	----
62449	----	1-1/2" x 1"	10	0.44	63449	----
62450	----	1-1/2" x 1-1/4"	10	0.46	63450	----
62451	----	2" x 3/4"				
62452	----	2" x 1"	5	0.57	63452	----
62453	----	2" x 1-1/4"	5	0.62	63453	----
62454	----	2" x 1-1/2"	5	0.62	63454	----
62428	----	3" x 1"	1	1.82		
62456	----	3" x 2"	1	2.25		

OD MACHINED COUPLING
304 & 316 150#



PART # 304 S.S	LIST PRICE	SIZE	A	B	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62410B	----	1/8"	0.76	0.56	25	0.04	63410B	----
62411B	----	1/4"	0.94	0.71	25	0.04	63411B	----
62412B	----	3/8"	0.98	0.84	25	0.07	63412B	----
62413B	----	1/2"	1.33	1.01	25	0.09	63413B	----
62414B	----	3/4"	1.41	1.27	25	0.16	63414B	----
62415B	----	1"	1.69	1.54	10	0.21	63415B	----
62416B	----	1-1/4"	1.93	1.90	10	0.31	63416B	----
62417B	----	1-1/2"	1.93	2.16	5	0.41	63417B	----
62418B	----	2"	1.96	2.66	5	0.68	63418B	----
62420B	----	3"	3.23	3.76	1			

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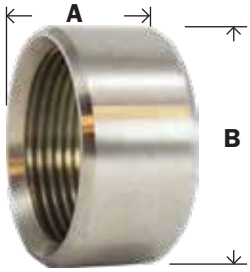
304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

HALF COUPLING
304 & 316 150#



PART # 304 S.S	LIST	SIZE	A	B	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62770		1/8"						
62771	----	1/4"	0.39	0.70	25	0.02	63771	----
62772	----	3/8"	0.45	0.82	25	0.02	63772	----
62773	----	1/2"	0.57	1.02	25	0.09	63773	----
62774	----	3/4"	0.67	1.22	25	0.11	63774	----
62775	----	1"	0.79	1.47	25	0.13	63775	----
62776	----	1-1/4"	0.86	1.88	10	0.24	63776	----
62777	----	1-1/2"	0.94	2.10	10	0.26	63777	----
62778	----	2"	1.06	2.60	5	0.44	63778	----

UNION
304 & 316 150#

- Stainless Steel Seat

PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62600	----	1/8"	25	0.09	63600	----
62601	----	1/4"	25	0.13	63601	----
62602	----	3/8"	25	0.22	63602	----
62603	----	1/2"	25	0.26	63603	----
62604	----	3/4"	25	0.46	63604	----
62605	----	1"	10	0.60	63605	----
62606	----	1-1/4"	5	0.90	63606	----
62607	----	1-1/2"	5	1.10	63607	----
62608	----	2"	1	1.81	63608	----
62610	----	3"	1	3.40	63610	----

CAP - CAST
304 & 316 150#

PART # 304 S.S		SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62470	----	1/8"	25	0.02	63470	----
62471	----	1/4"	25	0.02	63471	----
62472	----	3/8"	25	0.04	63472	----
62473	----	1/2"	25	0.07	63473	----
62474	----	3/4"	25	0.11	63474	----
62475	----	1"	10	0.18	63475	----
62476	----	1-1/4"	10	0.29	63476	----
62477	----	1-1/2"	10	0.40	63477	----
62478	----	2"	10	0.60	63478	----
62480	----	3"	1	1.28	63480	----
62481	----	4"	1	1.54		

HEX CAP - BARSTOCK
304 & 316 150#

PART # 304 S.S		SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62075	----	1/8"	25	0.04	63075	----
62076	----	1/4"	25	0.09	63076	----
62077	----	3/8"	25	0.11	63077	----
62078	----	1/2"	25	0.13	63078	----
62079	----	3/4"	25	0.22	63079	----
62080	----	1"	10	0.22	63080	----
62081	----	1-1/4"	10	0.29	63081	----
62082	----	1-1/2"	5	0.40	63082	----
62083	----	2"	5	0.49	63083	----

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HEX BUSHING
304 & 316 150#

PART # 304 S.S		SIZE M X F	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62500	----	1/4″ x 1/8″	25	0.04	63500	----
62501	----	3/8″ x 1/8″	25	0.04	63501	----
62502	----	3/8″ x 1/4″	25	0.04	63502	----
62503	----	1/2″ x 1/8″	25	0.09		
62504	----	1/2″ x 1/4″	25	0.09	63504	----
62505	----	1/2″ x 3/8″	25	0.11	63505	----
62506	----	3/4" x 1/8"	25	0.13	63506	----
62507	----	3/4″ x 1/4″	25	0.15	63507	----
62508	----	3/4″ x 3/8″	25	0.15	63508	----
62509	----	3/4″ x 1/2″	25	0.15	63509	----
62557	----	1" x 1/8"	25	0.27		
62510	----	1" x 1/4"	25	0.22	63510	----
62511	----	1" x 3/8"	25	0.24	63511	----
62512	----	1″ x 1/2″	25	0.24	63512	----
62513	----	1″ x 3/4″	25	0.24	63513	----
62515	----	1-1/4″ x 3/8″	25	0.37		
62516	----	1-1/4″ x 1/2″	25	0.37	63516	----
62517	----	1-1/4″ x 3/4″	25	0.37	63517	----
62518	----	1-1/4″ x 1″	25	0.37	63518	----
62521	----	1-1/2″ x 1/2″	25	0.44	63521	----
62522	----	1-1/2″ x 3/4″	25	0.46	63522	----
62532	----	1-1/2″ x 1″	25	0.49	63523	----
62524	----	1-1/2″ x 1-1/4″	25	0.46	63524	----
62559	----	2" x 1/4"	10	0.95		
62527	----	2″ x 1/2″	10	0.66	63527	----
62528	----	2″ x 3/4″	10	0.66	63528	----
62529	----	2″ x 1″	10	0.66	63529	----
62530	----	2″ x 1-1/4″	10	0.68	63530	----
62531	----	2″ x 1-1/2″	10	0.68	63531	----
62536	----	2-1/2" x 1"	5	1.70		
62534	----	2-1/2″ x 1-1/2″	5	1.23	63534	----
62535	----	2-1/2″ x 2″	5	1.21	63535	----
		3" x 1"	5	2.20	63550	----
62537	----	3" x 1-1/2"	5	1.97	63537	----
62538	----	3″ x 2″	5	1.72	63538	----
62539	----	3″ x 2-1/2″	5	1.81		
		4" x 1-1/2"	5	3.92	63540	----
		4" x 2"	1	3.72	63541	----
62543	----	4″ x 3″	1	2.43	63543	----

• SEE PAGE 13 FOR STAINLESS STEEL BULKHEAD FITTINGS

• SEE PAGE 268 FOR STAINLESS STEEL:

- BARBED FOR PLASTIC PIPE
- WELL COUPLINGS
- MERCHANT COUPLINGS

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304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

HEX LOCKNUT
304 & 316 150#

• Straight Thread

PART # 304 S.S		SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62700	----	1/8"	25	0.02		
62701	----	1/4"	25	0.05	63701	----
62702	----	3/8"	25	0.06	63702	----
62703	----	1/2"	25	0.07	63703	----
62704	----	3/4"	25	0.11	63704	----
62705	----	1"	25	0.15	63705	----
62706	----	1-1/4"	25	0.22	63706	----
62707	----	1-1/2"	25	0.29	63707	----
62708	----	2"	10	0.35	63708	----

CORED SQUARE HEAD PLUG
304 & 316 150#

PART # 304 S.S		SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62670	----	1/8"	25	0.02	63670	----
62671	----	1/4"	25	0.03	63671	----
62672	----	3/8"	25	0.04	63672	----
62653	----	1/2"	25	0.06	63653	----
62654	----	3/4"	25	0.13	63654	----
62655	----	1"	25	0.20	63655	----
62656	----	1-1/4"	25	0.32	63656	----
62657	----	1-1/2"	10	0.41	63657	----
62658	----	2"	10	0.65	63658	----
62659	----	2-1/2"	1	1.04		
62660	----	3"	1	0.88		

CORED HEX HEAD PLUG
304 & 316 150#

PART # 304 S.S		SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62630	----	1/8"	25	0.02	63630	----
62631	----	1/4"	25	0.02	63631	----
62632	----	3/8"	25	0.04	63632	----
62633	----	1/2"	25	0.07	63633	----
62634	----	3/4"	25	0.11	63634	----
62635	----	1"	25	0.20	63635	----
62636	----	1-1/4"	25	0.31	63636	----
62637	----	1-1/2"	10	0.44	63637	----
62638	----	2"	10	0.65	63638	----
		4"	1	2.77	63641	----

HOSE NIPPLE
304 & 316 150#

HOSE BARB X MALE PIPE

PART # 304 S.S		HOSE I.D. X MALE PIPE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
73951	----	1/4"	1	0.04	973951	----
73952	----	3/8"	1	0.07	973952	----
73953	----	1/2"	1	0.13	973953	----
73954	----	3/4"	1	0.20	973954	----
73955	----	1"	1	0.33	973955	----
73956	----	1-1/4"	1	0.47	973956	----
73957	----	1-1/2"	1	0.67	973957	----
73958	----	2"	1	0.88	973958	----
73959	----	2-1/2"	1	1.45	973959	----
73960	----	3"	1	1.94	973990	----
73961	----	4"	1	3.57	973991	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

REDUCING HOSE NIPPLE
304 150#

HOSE BARB X MALE PIPE

PART # 304 S.S	HOSE I.D. X MALE PIPE	BOX	APPROX. WT. LBS.	
73970	1/4" x 1/8"	1	0.04	----
73971	3/8" x 1/4"	1	0.07	----
73972	1/2" x 3/8"	1	0.13	----
73973	1/2" x 1/4"	1	0.13	----
73974	3/4" x 1/2"	1	0.20	----
73975	1" x 3/4"	1	0.33	----
73976	1" x 1/2"	1	0.33	----
73977	1-1/4" x 1"	1	0.46	----
73979	1-1/2" x 1-1/4"	1	0.66	----
73980	1-1/2" x 1"	1	0.66	----
73981	2" x 1-1/2"	1	0.88	----
73982	2" x 1-1/4"	1	0.88	----

SOLID HEX HEAD PLUG
316 150#

PART # 316 S.S	SIZE	BOX	APPROX. WT. LBS.	
63660	1/8"	25	0.04	----
63661	1/4"	25	0.06	----
63662	3/8"	25	0.08	----
63663	1/2"	25	0.12	----
63664	3/4"	25	0.15	----
63665	1"	25	0.24	----

HEX SOCKET PLUG - BARSTOCK
316 150#

PART # 316 S.S	SIZE	BOX	APPROX. WT. LBS.	
63759	1/16"	1	0.03	----
63760	1/8 "	1	0.05	----
63761	1/4 "	1	0.07	----
63762	3/8 "	1	0.10	----
63763	1/2 "	1	0.14	----
63764	3/4 "	1	0.21	----
63765	1"	1	0.24	----

SOLID SQUARE HEAD PLUG
316 150#

PART # 316 S.S	SIZE	BOX	APPROX. WT. LBS.	
63680	1/8"	25	0.04	----
63681	1/4"	25	0.04	----
63682	3/8"	25	0.05	----
63683	1/2"	25	0.06	----
63684	3/4"	25	0.12	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED STEEL NIPPLES

Product Specifications

Welded steel pipe nipples both galvanized and black in diameters ranging from 1/8" up to 4" in lengths from close to 12" and cut-pipe up to 120". -200°-150° Temp Rating.

Technical Specifications

Standards: Product complies with ASTM A-53, A-733 and ANSI B1.20.1 for threading, dimensions and pipe specifications.

Pipe: Complies with ASTM A-53 mill tested schedule 40 and 80 for both Welded & Seamless Meets ANSI B36.1.

Galvanized: Zinc coating applied by hot dipped. Galvanized complying with ASTM A-123, NSF approved, RoHS compliant.

Black: Protected against oxidation with varnish coating.

Cutting Procedure: All pipe is roller cut. A visual inspection of seams, excessive galvanizing, mid-welds, poor galvanizing, bends, roundness, under and over weight of the pipe is made at the time it is cut. This is done for every length of pipe. Pipe lengths are cut to a tolerance of + or - 1/16" of the actual length.

Threading Procedure:

All pipe is chaser thread cut to American Standard Tapered Pipe Thread standards. This is 3/4" taper per foot. Pipe is visually inspected for roundness of threads and other visual faults as it is removed from the threading machine.

SCHEDULE 80 XXS SEAMLESS

XXS SEAMLESS

- ASTM A106 Grade B Seamless Pipe
- ASTM A 53
- WWN 351
- Standard NPT Tapered Pipe Threads as per ANSI B 1.20.1 Specification

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

1/8" - 27

Wall Thickness 0.068 - GradeB - Test Pressure 700 PSI - Thread Length 0.39

1/8" DIAMETER
SCH 40 WELDED

PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56001	----	X Close (3/4")	50/600	0.02	57001	----
56002	----	x 1-1/2"	50/600	0.03	57002	----
56003	----	x 2"	50/500	0.04	57003	----
56004	----	x 2-1/2"	100/400	0.06	57004	----
56005	----	x 3	50/300	0.07	57005	----
56006	----	x 3-1/2"	50/300	0.08	57006	----
56007	----	x 4"	50/300	0.09	57007	----
56008	----	x 4-1/2"	50/300	0.10	57008	----
56009	----	x 5"	50/300	0.11	57009	----
56010	----	x 5-1/2"	50/300	0.12	57010	----
56011	----	x 6"	50/300	0.13	57011	----
56012	----	x 7"	50/300	0.15	57012	----
56013	----	x 8"	50/300	0.18	57013	----
56014	----	x 9"	50/300	0.21	57014	----
56015	----	x 10"	50/300	0.25	57015	----
56017	----	x 12"	50/300	0.29	57017	----

1/4"-18

Wall Thickness 0.068 - GradeB - Test Pressure 700 PSI - Thread Length 0.39

1/4" DIAMETER
SCH 40 WELDED

PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56020	----	X Close (7/8")	50/600	0.04	57020	----
56021	----	x 1-1/2"	125/500	0.06	57021	----
56022	----	x 2"	125/500	0.06	57022	----
56023	----	x 2-1/2"	100/400	0.08	57023	----
56024	----	x 3	50/300	0.10	57024	----
56025	----	x 3-1/2"	50/300	0.12	57025	----
56026	----	x 4"	50/300	0.14	57026	----
56027	----	x 4-1/2"	50/300	0.17	57027	----
56028	----	x 5"	50/300	0.19	57028	----
56029	----	x 5-1/2"	50/300	0.21	57029	----
56030	----	x 6"	50/300	0.23	57030	----
56031	----	x 7"	50/100	0.27	57031	----
56032	----	x 8"	50/100	0.31	57032	----
56033	----	x 9"	50/100	0.35	57033	----
56034	----	x 10"	50/100	0.40	57034	----
56035	----	x 11"	50/100	0.44	57035	----
56036	----	x 12"	50/100	0.48	57036	----
56038	----	x 18"	50/100	0.54		

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED SCH 40

NIPPLES AND FITTINGS

3/8" DIAMETER

SCH 40 WELDED

Wall Thickness 0.091 - Grade B - Test Pressure 700 PSI - Thread Length 0.6

PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56040	----	X Close (1")	50/600	0.05	57040	----
56041	----	x 1-1/2"	125/500	0.07	57041	----
56042	----	x 2"	125/500	0.08	57042	----
56043	----	x 2-1/2"	100/400	0.11	57043	----
56044	----	x 3"	50/300	0.13	57044	----
56045	----	x 3-1/2"	50/300	0.16	57045	----
56046	----	x 4"	50/300	0.19	57046	----
56047	----	x 4-1/2"	50/200	0.21	57047	----
56048	----	x 5"	50/150	0.24	57048	----
56049	----	x 5-1/2"	50/150	0.27	57049	----
56050	----	x 6"	50/100	0.29	57050	----
56051	----	x 7"	50/100	0.35	57051	----
56052	----	x 8"	50/100	0.40	57052	----
56053	----	x 9"	50/100	0.45	57053	----
56054	----	x 10"	50/100	0.51	57054	----
56055	----	x 11"	50/100	0.56	57055	----
56056	----	x 12"	50/100	0.62	57056	----
56430	----	x 18"	5/10	0.71	57430	----
		x 24"	1/1	1.02	57431	----

1/2" DIAMETER

SCH 40 WELDED

Wall Thickness 0.109 - Grade B - Test Pressure 700 PSI - Thread Length 0.78

PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56060	----	X Close (1-1/8")	50/600	0.08	57060	----
56061	----	x 1-1/2"	125/500	0.08	57061	----
56062	----	x 2"	125/500	0.12	57062	----
56063	----	x 2-1/2"	100/400	0.15	57063	----
56064	----	x 3"	50/300	0.19	57064	----
56065	----	x 3-1/2"	50/300	0.23	57065	----
56066	----	x 4"	50/300	0.27	57066	----
56067	----	x 4-1/2"	50/200	0.30	57067	----
56068	----	x 5"	50/150	0.34	57068	----
56069	----	x 5-1/2"	50/150	0.38	57069	----
56070	----	x 6"	50/100	0.42	57070	----
56071	----	x 7"	50/100	0.49	57071	----
56072	----	x 8"	50/100	0.57	57072	----
56073	----	x 9"	50/100	0.65	57073	----
56074	----	x 10"	50/100	0.72	57074	----
56075	----	x 11"	50/100	0.80	57075	----
56076	----	x 12"	40/80	0.87	57076	----
56240	----	x 18"	1/3	1.29	57240	----
56241	----	x 24"	1/3	1.74	57241	----
56242	----	x 30"	1/3	2.16	57242	----
56243	----	x 36"	1/3	2.61	57243	----
56244	----	x 42"	1/3	3.03	57244	----
56245	----	x 48"	1/3	3.48	57245	----
56246	----	x 60"	1/3	4.35	57246	----
56247	----	x 72"	1/3	5.22	57247	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

3/4" DIAMETER
SCH 40 WELDED

Wall Thickness 0.113 - Grade B - Test Pressure 700 PSI - Thread Length 0.79

Part # Galv		Length	Box/Case	Approx. Wt. Lbs.	Part # Black	
56080	----	X Close (1-3/8")	50/300	0.13	57080	----
56081	----	x 1-1/2"	125/250	0.10	57081	----
56082	----	x 2"	125/250	0.15	57082	----
56083	----	x 2-1/2"	50/250	0.20	57083	----
56084	----	x 3"	50/200	0.24	57084	----
56085	----	x 3-1/2"	50/150	0.29	57085	----
56086	----	x 4"	50/150	0.34	57086	----
56087	----	x 4-1/2"	50/150	0.39	57087	----
56088	----	x 5"	50/150	0.43	57088	----
56089	----	x 5-1/2"	60/120	0.48	57089	----
56090	----	x 6"	50/100	0.53	57090	----
56091	----	x 7"	50/100	0.63	57091	----
56092	----	x 8"	50/100	0.72	57092	----
56093	----	x 9"	40/80	0.82	57093	----
56094	----	x 10"	40/80	0.91	57094	----
56095	----	x 11"	30/60	1.01	57095	----
56096	----	x 12"	30/60	1.10	57096	----
56250	----	x 18"	1/3	1.63	57250	----
56251	----	x 24"	1/3	2.20	57251	----
56252	----	x 30"	1/3	2.73	57252	----
56253	----	x 36"	1/3	3.30	57253	----
56254	----	x 42"	1/3	3.83	57254	----
56255	----	x 48"	1/3	4.40	57255	----
56256	----	x 60"	1/3	5.50	57256	----
56257	----	x 72"	1/3	6.60	57257	----

I hated every minute of training, but I said, 'Don't quit. Suffer now and live the rest of your life as a champion.'

- Muhammad Ali

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED SCH 40
NIPPLES AND FITTINGS

1" DIAMETER
SCH 40 WELDED

Wall Thickness 0.133 - Grade B - Test Pressure 700 PSI - Thread Length 0.98

PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56100	----	X Close (1-1/2")	50/200	0.16	57100	----
56101	----	x 2"	50/150	0.23	57101	----
56102	----	x 2-1/2"	50/150	0.29	57102	----
56103	----	x 3"	50/100	0.36	57103	----
56104	----	x 3-1/2"	50/100	0.43	57104	----
56105	----	x 4"	50/100	0.50	57105	----
56106	----	x 4-1/2"	50/100	0.56	57106	----
56107	----	x 5"	50/100	0.63	57107	----
56108	----	x 5-1/2"	50/100	0.70	57108	----
56109	----	x 6"	40/80	0.77	57109	----
56110	----	x 7"	25/50	0.90	57110	----
56111	----	x 8"	25/50	1.03	57111	----
56112	----	x 9"	15/30	1.17	57112	----
56113	----	x 10"	15/30	1.30	57113	----
56114	----	x 11"	15/30	1.44	57114	----
56115	----	x 12"	15/30	1.57	57115	----
56260	----	x 18"	1/3	2.34	57260	----
56261	----	x 24"	1/3	3.14	57261	----
56262	----	x 30"	1/3	3.91	57262	----
56263	----	x 36"	1/3	4.71	57263	----
56264	----	x 42"	1/3	5.48	57264	----
56265	----	x 48"	1/3	6.28	57265	----
56266	----	x 60"	1/3	7.85	57266	----
56267	----	x 72"	1/3	9.42	57267	----

Put your heart, mind, and soul into even your smallest acts. This is the secret of success.

- Swami Sivananda

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

1-1/4" DIAMETER
SCH 40 WELDED

Wall Thickness 0.14 - Grade B - Test Pressure 1300 PSI - Thread Length 1.01

PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56120	----	X Close (1-5/8")	50/100	0.25	57120	----
56121	----	x 2"	50/100	0.32	57121	----
56122	----	x 2-1/2"	50/100	0.41	57122	----
56123	----	x 3"	50/100	0.50	57123	----
56124	----	x 3-1/2"	30/60	0.60	57124	----
56125	----	x 4"	30/60	0.69	57125	----
56126	----	x 4-1/2"	30/60	0.78	57126	----
56127	----	x 5"	25/50	0.87	57127	----
56128	----	x 5-1/2"	25/50	0.96	57128	----
56129	----	x 6"	25/50	1.06	57129	----
56130	----	x 7"	15/30	1.24	57130	----
56131	----	x 8"	15/30	1.42	57131	----
56132	----	x 9"	15/30	1.61	57132	----
56133	----	x 10"	15/30	1.79	57133	----
56134	----	x 11"	10/20	1.97	57134	----
56135	----	x 12"	10/20	2.16	57135	----
56270	----	x 18"	1/3	3.22	57270	----
56271	----	x 24"	1/3	4.32	57271	----
56272	----	x 30"	1/3	3.22	57272	----
56273	----	x 36"	1/3	6.48	57273	----
56275	----	x 48"			57275	----

1-1/2" DIAMETER
SCH 40 WELDED

Wall Thickness 0.145 - Grade B - Test Pressure 1300 PSI - Thread Length 1.03

PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56140	----	X Close (1-3/4")	50/100	0.31	57140	----
56141	----	x 2"	40/80	0.37	57141	----
56142	----	x 2-1/2"	40/80	0.47	57142	----
56143	----	x 3"	40/80	0.58	57143	----
56144	----	x 3-1/2"	25/50	0.68	57144	----
56145	----	x 4"	25/50	0.78	57145	----
56146	----	x 4-1/2"	25/50	0.89	57146	----
56147	----	x 5"	25/50	1.10	57147	----
56148	----	x 5-1/2"	20/40	1.10	57148	----
56149	----	x 6"	15/30	1.20	57149	----
56150	----	x 7"	15/30	1.41	57150	----
56151	----	x 8"	15/30	1.62	57151	----
56152	----	x 9"	15/30	1.83	57152	----
56153	----	x 10"	1/20	2.04	57153	----
56154	----	x 11"	1/20	2.25	57154	----
56155	----	x 12"	1/20	2.46	57155	----
56280	----	x 18"	1/3	3.66	57280	----
56281	----	x 24"	1/3	4.92	57281	----
56282	----	x 30"	1/3	6.12	57282	----
56283	----	x 36"	1/3	7.38	57283	----
56285	----	x 48"	1/3	9.84	57285	----
		x 60"			57286	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED SCH 40
NIPPLES AND FITTINGS

2" DIAMETER
SCH 40 WELDED
Wall Thickness 0.154 - Grade B - Test Pressure 2500 PSI - Thread Length 1.06

PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56160	----	X Close (2")	40/80	0.55	57160	----
56161	----	x 2-1/2"	25/50	0.70	57161	----
56162	----	x 3"	25/50	0.86	57162	----
56163	----	x 3-1/2"	1/30	1.01	57163	----
56164	----	x 4"	1/30	1.16	57164	----
56165	----	x 4-1/2"	1/25	1.31	57165	----
56166	----	x 5"	1/30	1.47	57166	----
56167	----	x 5-1/2"	1/30	1.62	57167	----
56168	----	x 6"	1/20	1.77	57168	----
56169	----	x 7"	1/20	2.08	57169	----
56170	----	x 8"	1/20	2.39	57170	----
56171	----	x 9"	1/10	2.70	57171	----
56172	----	x 10"	1/10	3.00	57172	----
56173	----	x 11"	1/10	3.31	57173	----
56174	----	x 12"	1/10	3.62	57174	----
56290	----	x 18"	1/3	5.39	57290	----
56291	----	x 24"	1/3	5.26	57291	----
56292	----	x 30"	1/3	7.03	57292	----
56293	----	x 36"	1/3	10.86	57293	----
56294	----	x 42"	1/3	12.63	57294	----
56295	----	x 48"	1/3	14.48	57295	----
56296	----	x 60"	1/3	18.10	57296	----
56297	----	x 72"	1/3	18.10	57297	----

2-1/2" DIAMETER
SCH 40 WELDED
Wall Thickness 0.203 - Grade B - Test Pressure 2500 PSI - Thread Length 1.57

PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56180	----	X Close (2-1/2")	1/20	1.09	57180	----
56181	----	x 3"	1/20	1.33	57181	----
56182	----	x 3-1/2"	1/20	1.57	57182	----
56183	----	x 4"	1/20	1.82	57183	----
56184	----	x 4-1/2"	1/20	2.06	57184	----
56185	----	x 5"	1/20	2.30	57185	----
56186	----	x 5-1/2"	1/10	2.54	57186	----
56187	----	x 6"	1/10	2.78	57187	----
56188	----	x 7"	1/10	3.27	57188	----
56189	----	x 8"	1/10	3.75	57189	----
56190	----	x 9"	1/10	4.24	57190	----
56191	----	x 10"	1/8	4.72	57191	----
56192	----	x 11"	1/8	5.21	57192	----
56193	----	x 12"	1/8	5.69	57193	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED SCH 40
NIPPLES AND FITTINGS

3" DIAMETER
SCH 40 WELDED

Wall Thickness 0.216 - Grade B - Test Pressure 2500 PSI - Thread Length 1.64

PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56200	----	X Close (2-5/8")	1/20	1.52	57200	----
56201	----	x 3"	1/20	1.76	57201	----
56202	----	x 3-1/2"	1/10	2.08	57202	----
56203	----	x 4"	1/10	2.39	57203	----
56204	----	x 4-1/2"	1/10	2.71	57204	----
56205	----	x 5"	1/10	3.03	57205	----
56206	----	x 5-1/2"	1/10	3.35	57206	----
56207	----	x 6"	1/10	3.66	57207	----
56208	----	x 7"	1/8	4.30	57208	----
56209	----	x 8"	1/8	4.93	57209	----
56210	----	x 9"	1/8	5.57	57210	----
56211	----	x 10"	1/5	6.20	57211	----
56212	----	x 11"	1/5	7.20	57212	----
56213	----	x 12"	1/5	7.47	57213	----
		x 24"	1	14.94	57311	----

4" DIAMETER
SCH 40 WELDED

Wall Thickness 0.237 - Grade B - Test Pressure 2210 PSI - Thread Length 1.74

PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56220	----	X Close (2-7/8")	1/10	2.00	57220	----
56221	----	3-1/2"	1/8	2.21		
56223	----	x 4"	1/8	3.41	57223	----
56224	----	x 4-1/2"	1/6	3.86	57224	----
56225	----	x 5"	1/6	4.31	57225	----
56226	----	x 5-1/2"	1/6	4.76	57226	----
56227	----	x 6"	1/6	5.21	57227	----
56330	----	x 7"	1/5	6.48	57330	----
56229	----	x 8"	1/5	7.01	57229	----
56331	----	x 9"	1/5	7.54	57331	----
56332	----	x 10"	1/5	8.14	57332	----
56228	----	x 12"	1/4	8.54	57228	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

NIPPLES AND ASSORTMENTS

NIPPLES AND FITTINGS

6" DIAMETER

SCH 40 WELDED

Wall Thickness 0.154 - Grade B - Test Pressure 2500 PSI - Thread Length 1.06

PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56300	----	X Close (3-1/8")	1/1	3.80	57300	----
		x 4"	1/1	5.30	57304	----
		x 6"	1/1	8.30	57301	----
		x 8"	1/1	11.30	57305	----
		x 10"			57306	----
		x 12"	1/1	17.20	57308	----

8" DIAMETER

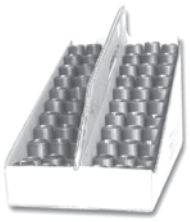
SCH 40 WELDED

Wall Thickness 0.154 - Grade B - Test Pressure 2500 PSI - Thread Length 1.06

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
57320	X Close (3-1/8")	1/1	5.80	----
57322	x 6"	1/1	6.50	----
57324	x 8"	1/1	11.30	----
57326	x 10"	1/1	19.00	----
57328	x 12"	1/1	28.55	----

STEEL NIPPLE ASSORTMENTS

B "6" ASSORTMENTS



BLACK		LENGTH											WT. LBS.	TOTAL PIECES	
			1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	6"			
973567	1/2"	6	6	6	6	6	6	6	6	6	6	6	20	66	----
973568	3/4"	6	6	6	6	6	6	6	6	6	6	6	27	66	----
973569	1"	6		6	6	6	6	6	6	6	6	6	34	60	----

GALV.		LENGTH											WT. LBS.	TOTAL PIECES	
			1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	6"			
973667	1/2"	6	6	6	6	6	6	6	6	6	6	6	20	66	----
973668	3/4"	6	6	6	6	6	6	6	6	6	6	6	27	66	----
973669	1"	6		6	6	6	6	6	6	6	6	6	34	60	----

STEEL TOTE TRAYS

PART #	SIZE	CAPACITY	
990781	1/2"	77pcs	----
990782	3/4"	66pcs	----
990783	1"	50pcs	----
990786	1-1/4"	40pcs	----
990784	1-1/2"	30pcs	----
990785	2"	27pcs	----

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EXTRA HEAVY SEAMLESS STEEL PIPE NIPPLES

1/8" - 27

1/8" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.094 - GradeB - Test Pressure850 PSI - Thread Length 0.39

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59001SMLS	x Close	40/480	0.02	----
59002SMLS	x 1-1/2"	40/480	0.03	----
59003SMLS	x 2"	100/400	0.05	----
59004SMLS	2-1/2"	100/400	0.06	----
59005SMLS	x 3"	40/240	0.08	----
59006SMLS	x 3-1/2"	40/240	0.09	----
59007SMLS	x 4"	40/240	0.11	----
59009SMLS	x 5"	40/120	0.12	----
59010SMLS	x 5-1/2"	40/120	0.13	----
59011SMLS	x 6"	40/80	0.16	----

1/4"-18

1/4" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.119 - Grade B - Test Pressure 850 PSI - Thread Length 0.59

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59020SMLS	x Close (7/8")	40 / 480	0.03	----
59021SMLS	x 1-1/2"	100 / 400	0.06	----
59022SMLS	x 2"	100 / 400	0.08	----
59023SMLS	x 2-1/2"	80 / 320	0.10	----
59024SMLS	x 3"	40 / 240	0.12	----
59025SMLS	x 3-1/2"	40 / 240	0.15	----
59026SMLS	x 4"	40 / 240	0.17	----
59027SMLS	x 4-1/2"	40 / 120	0.19	----
59028SMLS	x 5"	40 / 120	0.21	----
59029SMLS	x 5-1/2"	40 / 80	0.24	----
59030SMLS	x 6"	40 / 80	0.26	----
59031SMLS	x 7"	40 / 80	0.30	----
59032SMLS	x 8"	40 / 80	0.35	----
59033SMLS	x 9"	40 / 80	0.39	----
59034SMLS	x 10"	40 / 80	0.44	----
59036SMLS	x 12"	40 / 80	0.53	----

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BLACK SCH 80 SEAMLESS
NIPPLES AND FITTINGS

3/8"-18

3/8" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.126 - Grade B - Test Pressure 850 PSI - Thread Length 0.6

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59040SMLS	X Close (3/8")	40 / 480	0.05	----
59041SMLS	x 1-1/2"	100 / 400	0.08	----
59042SMLS	x 2"	100 / 400	0.11	----
59043SMLS	x 2-1/2"	80 / 320	0.14	----
59044SMLS	x 3"	40 / 240	0.17	----
59045SMLS	x 3-1/2"	40 / 240	0.20	----
59046SMLS	x 4"	40 / 240	0.23	----
59047SMLS	x 4-1/2"	40 / 160	0.26	----
59048SMLS	x 5"	40 / 120	0.29	----
59049SMLS	x 5-1/2"	40 / 120	0.32	----
59050SMLS	x 6"	40 / 80	0.35	----
59052SMLS	x 8"	40/80	0.47	----
59054SMLS	x 10"	40/80	0.53	----
59056SMLS	x 12"	40/80	0.65	----

1/2" - 14

1/2" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.147 - Grade B - Test Pressure 850 PSI - Thread Length 0.78

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59060SMLS	X Close (1-1/8")	40 / 480	0.07	----
59061SMLS	x 1-1/2"	100 / 400	0.11	----
59062SMLS	x 2"	100 / 400	0.15	----
59063SMLS	x 2-1/2"	80 / 320	0.20	----
59064SMLS	x 3"	40 / 240	0.24	----
59065SMLS	x 3-1/2"	40 / 240	0.29	----
59066SMLS	x 4"	40 / 240	0.33	----
59067SMLS	x 4-1/2"	40 / 160	0.38	----
59068SMLS	x 5"	40 / 120	0.42	----
59069SMLS	x 5-1/2"	40 / 120	0.47	----
59070SMLS	x 6"	40 / 80	0.51	----
59071SMLS	x 7"	40 / 80	0.60	----
59072SMLS	x 8"	40 / 80	0.69	----
59073SMLS	x 9"	40/80	0.73	----
59074SMLS	x 10"	40 / 80	0.88	----
59075SMLS	x 11"	32/64	0.96	----
59076SMLS	x 12"	32 / 64	1.06	----

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3/4" - 14

3/4" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.154 - Grade B - Test Pressure 850 PSI - Thread Length 0.79

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59080SMLS	X Close (1-3/8")	40/240	0.13	----
59081SMLS	x 1-1/2"	100/200	0.15	----
59082SMLS	x 2"	100/200	0.21	----
59083SMLS	x 2-1/2"	40/160	0.27	----
59084SMLS	x 3"	40/160	0.33	----
59085SMLS	x 3-1/2"	40/120	0.39	----
59086SMLS	x 4"	40/120	0.45	----
59087SMLS	x 4-1/2"	40/120	0.51	----
59088SMLS	x 5"	40/120	0.57	----
59089SMLS	x 5-1/2"	48/96	0.64	----
59090SMLS	x 6"	40/80	0.69	----
59091SMLS	x 7"	40/80	0.82	----
59092SMLS	x 8"	40/80	0.94	----
59094SMLS	x 10"	32/64	1.19	----
59096SMLS	x 12"	24/48	1.44	----

1" - 11 1/2

1" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.179 - Grade B - Test Pressure 850 PSI - Thread Length 0.98

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59100SMLS	X Close (1-1/2")	40 / 160	0.21	----
59101SMLS	x 2"	40 / 120	0.30	----
59102SMLS	x 2-1/2"	40 / 120	0.37	----
59103SMLS	x 3"	40 / 80	0.47	----
59104SMLS	x 3-1/2"	40 / 80	0.56	----
59105SMLS	x 4"	40 / 80	0.65	----
59106SMLS	x 4-1/2"	40 / 80	0.74	----
59107SMLS	x 5"	40 / 80	0.83	----
59108SMLS	x 5-1/2"	40 / 80	0.92	----
59109SMLS	x 6"	32 / 64	1.01	----
59110SMLS	x 7"	20 / 40	1.19	----
59111SMLS	x 8"	20 / 40	1.37	----
59112SMLS	x 9"	20 / 40	1.55	----
59113SMLS	x 10"	12 / 24	1.74	----
59114SMLS	x 11"	12 / 24	1.92	----
59115SMLS	x 12"	12 / 24	2.10	----

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BLACK SCH 80 SEAMLESS
NIPPLES AND FITTINGS

1-1/4" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.191 - Grade B - Test Pressure 1900 PSI - Thread Length 1.01

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59120SMLS	X Close (1-5/8")	40 / 80	0.31	----
59121SMLS	x 2"	40 / 80	0.42	----
59122SMLS	x 2-1/2"	40 / 80	0.52	----
59123SMLS	x 3"	40 / 80	0.64	----
59124SMLS	x 3-1/2"	24 / 48	0.77	----
59125SMLS	x 4"	24 / 48	0.90	----
59126SMLS	x 4-1/2"	24 / 48	1.02	----
59127SMLS	x 5"	20 / 40	1.15	----
59128SMLS	x 5-1/2"	20 / 40	1.27	----
59129SMLS	x 6"	20 / 40	1.40	----
59130SMLS	x 7"	20 / 40	1.65	----
59131SMLS	x 8"	12 / 24	1.90	----
59132SMLS	x 9"	12 / 24	2.15	----
59133SMLS	x 10"	12 / 24	2.40	----
59134SMLS	x 11"	8 / 16	2.65	----
59135SMLS	x 12"	8 / 16	2.90	----

1-1/2" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.2 - Grade B - Test Pressure 1900 PSI - Thread Length 1.03

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59140SMLS	X Close (1-3/4")	40 / 80	0.41	----
59141SMLS	x 2"	32 / 64	0.51	----
59142SMLS	x 2-1/2"	32 / 64	0.64	----
59143SMLS	x 3"	32 / 64	0.78	----
59144SMLS	x 3-1/2"	20 / 40	0.94	----
59145SMLS	x 4"	20 / 40	1.09	----
59146SMLS	x 4-1/2"	20 / 40	1.23	----
59147SMLS	x 5"	20 / 40	1.39	----
59148SMLS	x 5-1/2"	16 / 32	1.54	----
59149SMLS	x 6"	12 / 24	1.69	----
59150SMLS	x 7"	12 / 24	2.00	----
59151SMLS	x 8"	12 / 24	2.30	----
59152SMLS	x 9"	12 / 24	2.61	----
59153SMLS	x 10"	8 / 16	2.90	----
59154SMLS	x 11"	8 / 16	3.20	----
59155SMLS	x 12"	8 / 16	3.51	----

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2" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.218 - Grade B - Test Pressure 2500 PSI - Thread Length 1.06

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59160SMLS	X Close (2")	32/64	0.30	----
59161SMLS	x 2-1/2"	20 / 40	0.80	----
59162SMLS	x 3"	20 / 40	1.10	----
59163SMLS	x 3-1/2"	12 / 24	1.31	----
59164SMLS	x 4"	12 / 24	1.52	----
59165SMLS	x 4-1/2"	12 / 24	1.72	----
59166SMLS	x 5"	12 / 24	1.94	----
59167SMLS	x 5-1/2"	12 / 24	2.15	----
59168SMLS	x 6"	8 / 16	2.35	----
59169SMLS	x 7"	8 / 16	2.78	----
59170SMLS	x 8"	8 / 16	3.19	----
59171SMLS	x 9"	1 / 8	3.62	----
59172SMLS	x 10"	1 / 8	4.03	----
59173SMLS	x 11"	1 / 8	4.44	----
59174SMLS	x 12"	1 / 8	4.87	----
59196SMLS	x 18"	1/1	7.22	----
59197SMLS	x 24"	1/1	9.74	----
59198SMLS	x 36"	1/1	14.61	----
59199SMLS	x 48"	1/1	19.48	----

2-1/2" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.276 - Grade B - Test Pressure 2500 PSI - Thread Length 1.57

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59180SMLS	x Close (2-1/2")	1 / 16	1.25	----
59181SMLS	x 3"	1 / 16	1.57	----
59182SMLS	x 3-1/2"	1 / 16	1.82	----
59183SMLS	x 4"	1 / 16	2.15	----
59184SMLS	x 4-1/2"	1 / 16	1.75	----
59185SMLS	x 5"	1 / 16	2.78	----
59186SMLS	x 5-1/2"	1 / 8	2.25	----
59187SMLS	x 6"	1 / 8	3.41	----
59188SMLS	x 7"	1 / 8	3.89	----
59189SMLS	x 8"	1 / 8	4.69	----
59190SMLS	x 9"	1 / 8	5.34	----
59191SMLS	x 10"	1 / 6	5.97	----
59192SMLS	x 11"	1 / 6	4.89	----
59193SMLS	x 12"	1 / 5	7.26	----

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BLACK SCH 80 SEAMLESS
NIPPLES AND FITTINGS

3" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.3 - Grade B - Test Pressure 2500 PSI - Thread Length 1.64

Part #	Length	Box/Case	Approx. Wt. Lbs.	
59-200SMLS	X Close (2-5/8")	1 / 16	1.79	----
59-201SMLS	x 3"	1 / 16	2.11	----
59-202SMLS	x 3-1/2"	1 / 16	2.55	----
59-203SMLS	x 4"	1 / 8	2.89	----
59-204SMLS	x 4-1/2"	1 / 8	3.30	----
59-205SMLS	x 5"	1 / 8	3.73	----
59-206SMLS	x 5-1/2"	1 / 8	4.17	----
59-207SMLS	x 6"	1 / 8	4.57	----
59-208SMLS	x 7"	1 / 6	5.45	----
59-209SMLS	x 8"	1 / 6	6.29	----
59-210SMLS	x 9"	1 / 6	7.17	----
59-211SMLS	x 10"	1 / 4	8.01	----
59-212SMLS	x 11"	1 / 4	8.85	----
59-213SMLS	x 12"	1 / 4	9.72	----

4" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.337 - Grade B - Test Pressure 2800 PSI - Thread Length 1.74

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59220SMLS	X Close (2-7/8")	1 / 8	2.91	----
59221SMLS	x 4"	1 / 6	4.26	----
59223SMLS	x 5"	1 / 5	5.49	----
59224SMLS	x 5-1/2"			
59225SMLS	x 6"	1 / 5	6.72	----
59226SMLS	x 7"	1/3	7.33	----
59227SMLS	x 8"	1 / 3	9.23	----
59228SMLS	9"			
59229SMLS	x 10"	1 / 3	11.73	----
59231SMLS	x 12"	1 / 3	14.24	----

SCHEDULE 80 SEAMLESS

6" DIAMETER

8" DIAMETER

PART #		LENGTH	BOX/CASE	APPROX. WT. LBS. 6"	APPROX. WT. LBS. 8"	PART #	
59300SMLS	----	X Close	2	3.57	4.62	59-320SMLS	----
59301SMLS	----	x 6"	2	14.29	16.91	59-322SMLS	----
59305SMLS	----	x 8"	2	19.05	22.54	59-324SMLS	----
59306SMLS	----	x 10"	2	23.81	27.47	59-326SMLS	----
59308SMLS	----	x 12"	2	28.57	34.18	59-328SMLS	----

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1/2" DIAMETER BLACK EXTRA HEAVY XXS SEAMLESS

Wall Thickness 0.294 - Grade B - Test Pressure 1000 PSI - Thread Length 0.79

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59060SMLSXX	x Close	100 / 200	0.31	----
59062SMLSXX	x 2"	100 / 200	0.58	----
59064SMLSXX	x 3"	50 / 100	0.62	----
59066SMLSXX	x 4"	50 / 100	0.66	----
59070SMLSXX	x 6"	25 / 50	0.75	----

3/4" DIAMETER DIAMETER BLACK EXTRA HEAVY XXS SEAMLESS

Wall Thickness 0.308 - Grade B - Test Pressure 1000 PSI - Thread Length 0.79

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59080SMLSXX	x Close	40/240	0.55	----
59082SMLSXX	x 2"	50 / 100	0.62	----
59086SMLSXX	x 4"	25 / 50	0.68	----
59090SMLSXX	x 6"	25 / 50	0.71	----

1" DIAMETER DIAMETER BLACK EXTRA HEAVY XXS SEAMLESS

Wall Thickness 0.358 - Grade B - Test Pressure 1000 PSI - Thread Length 0.98

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59100SMLSXX	x close	50 / 100	0.88	----
59101SMLSXX	x 2"	50 / 100	1.07	----
59103SMLSXX	x 3"	20/40	1.10	----
59105SMLSXX	x 4"	20 / 40	1.14	----
59109SMLSXX	x 6"	20 / 40	1.75	----
59111SMLSXX	x 8"	1 / 25	1.88	----
59115SMLSXX	x 12"	1 / 15	2.15	----

2" DIAMETER DIAMETER BLACK EXTRA HEAVY XXS SEAMLESS

Wall Thickness 0.436 - Grade B - Test Pressure 2500 PSI - Thread Length 1.06

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59160SMLSXX	x close	1 / 25	1.36	----
59161SMLSXX	x 2-1/2"	1 / 20	1.67	----
59162SMLSXX	x 3"	1 / 20	2.09	----
59163SMLSXX	x 3-1/2"	1 / 12	2.51	----
59164SMLSXX	x 4"	1 / 12	2.86	----
59166SMLSXX	x 5"	1/12	3.04	----
59168SMLSXX	x 6"	1 / 11	3.20	----
59169SMLSXX	x 7"	1 / 8	4.35	----
59170SMLSXX	x 8"	1 / 8	5.86	----
59171SMLSXX	x 9"	1 / 8	6.58	----
59172SMLSXX	x 10"	1 / 8	7.31	----
59174SMLSXX	x 12"	1 / 8	9.34	----
59179SMLSXX	x 24"	1 / 1	14.77	----

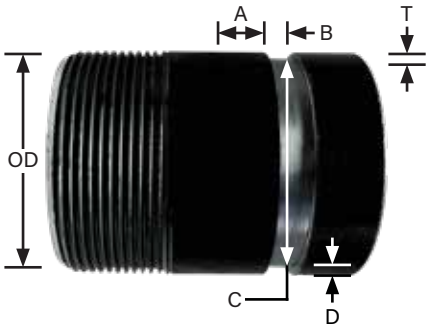
WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

SCH 40 AND SCH 80 GROOVE NIPPLES

NIPPLES AND FITTINGS

THREAD X GROOVE

SCH 40



SCH 80

2" DIAMETER

PART #	LIST PRICE	BOX	WTG	LENGTH	WTG	BOX	PART #	
57162TV	----	50	0.70	x 3	1.03	40	59162TV	----
57164TV	----	30	0.97	x 4	1.40	24	59164TV	----
57168TV	----	20	1.64	x 6	2.41	16	59168TV	----
57170TV	----	20	2.15	x 8	3.20	16	59170TV	----
57172TV	----	10	2.80	x 10	3.65	8	59172TV	----
57174TV	----	10	3.45	x 12	4.01	8	59174TV	----

3" DIAMETER

PART #	LIST PRICE	BOX	WTG	LENGTH	WTG	BOX	PART #	
57201TV	----	20	1.26	x 3	2.01	16	59201TV	----
57203TV	----	10	1.80	x 4	3.01	8	59203TV	----
57207TV	----	10	3.17	x 6	4.87	8	59207TV	----
57209TV	----	8	4.13	x 8	5.86	6	59209TV	----
57211TV	----	5	5.48	x 10	6.19	4	59211TV	----
57213TV	----	5	6.24	x 12	6.37	4	59213TV	----

4" DIAMETER

PART #	LIST PRICE	BOX	WTG	LENGTH	WTG	BOX	PART #	
57222TV	----	8	2.40	x 3	4.11	6	59222TV	----
57223TV	----	8	2.52	x 4	4.15	6	59221TV	----
57227TV	----	6	4.30	x 6	6.52	5	59225TV	----
57229TV	----	4	5.63	x 8	7.18	3	59229TV	----
57332TV	----	4	7.90	x 10	11.74	3	59231TV	----
57228TV	----	4	8.25	x 12	14.24	3	59227TV	----

NOMINAL IPS PIPE SIZE	O.D. ACTUAL	GASKET SEAT "A"	GROOVE WIDTH "B"	GROOVE DIAMETER "C"	ACTUAL GROOVE DEPTH "D"
2	2.375	0.625	0.312	2.250	0.062
3	3.500	0.625	0.312	3.344	0.078
4	4.500	0.625	0.375	4.334	0.083

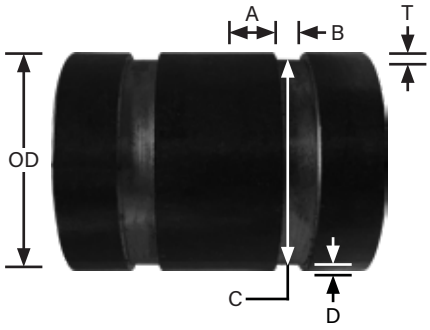
WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK SCH 40 AND SCH 80 SEAMLESS GROOVE NIPPLES

NIPPLES AND FITTINGS

SCH 40

GROOVE X GROOVE



SCH 80

2" DIAMETER

PART #		BOX	WTG	LENGTH	WTG	BOX	PART #	
57162V	----	50	0.70	x 3	1.03	40	59162V	----
57164V	----	30	0.97	x 4	1.40	24	59164V	----
57168V	----	20	1.64	x 6	2.41	16	59168V	----
57170V	----	20	2.15	x 8	3.20	16	59170V	----
57172V	----	10	2.80	x 10	3.65	8	59172V	----
57174V	----	10	3.45	x 12	4.01	8	59174V	----

3" DIAMETER

PART #		BOX	WTG	LENGTH	WTG	BOX	PART #	
57201V	----	20	1.26	x 3	2.01	16	59201V	----
57203V	----	10	1.80	x 4	3.01	8	59203V	----
57207V	----	10	3.17	x 6	4.87	8	59207V	----
57209V	----	8	4.13	x 8	5.86	6	59209V	----
57211V	----	5	5.48	x 10	6.19	4	59211V	----
57213V	----	5	6.24	x 12	6.37	4	59213V	----

4" DIAMETER

PART #		BOX	WTG	LENGTH	WTG	BOX	PART #	
57223V	----	8	2.52	x 4	4.15	6	59221V	----
57227V	----	6	4.35	x 6	6.52	5	59225V	----
57229V	----	4	5.63	x 8	7.18	3	59227V	----
57332V	----	4	7.90	x 10	11.74	3	59229V	----
57228V	----	4	8.25	x 12	14.24	3	59231V	----

SEAMLESS SCH 40 GROOVE X BEVEL NIPPLES

PART #	DIA. X LENGTH	
57162GBS	2 x 3	----
57201GBS	3 x 3	----
57222GBS	4 x 3	----
57400GBS	8 x 3	----
57500GBS	10 x 3	----
57600GBS	12 x 3	----

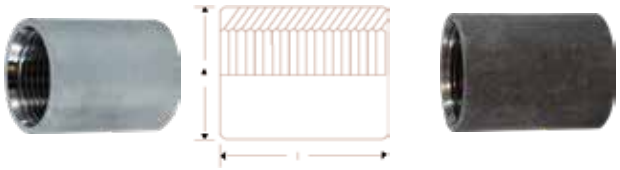
WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

MERCHANT COUPLINGS

Product Specifications
Welded steel couplings both galvanized and black in diameters from 1/8" up to 4".

Technical Specifications
Standards: Product complies with ASTM A865 and ANSI B1.20.1 for threading, dimensions and pipe specifications. Federal Spec WW-P-404
Pipe: Complies with ASTM A-53 milltested schedule 40 and 80. Meets ANSI B36.1. All pipe is hydrostatic tested.
Galvanized: Zinc coating applied by hot dipping. Galvanized complying with ASTM-A-123.

MERCHANT COUPLINGS



• Straight threads thru 2"

PART # GALV		SIZE	PART # BLACK	
64770	----	1/8"	65770	----
64771	----	1/4"	65771	----
64772	----	3/8"	65772	----
64773	----	1/2"	65773	----
64774	----	3/4"	65774	----
64775	----	1"	65775	----
64776	----	1-1/4"	65776	----
64777	----	1-1/2"	65777	----
64778	----	2"	65778	----
64779	----	2-1/2"	65779	----
64780	----	3"	65780	----
64781	----	4"	65781	----
		5"	65782	----
		6"	65783	----

HALF MERCHANT COUPLINGS

• Straight threads thru 2"

PART # GALV		SIZE	PART # BLACK	
		1/8"	65770H	
		1/4"	65771H	----
		3/8"	65772H	----
64773H	----	1/2"	65773H	----
64774H	----	3/4"	65774H	----
64775H	----	1"	65775H	----
64776H	----	1-1/4"	65776H	----
64777H	----	1-1/2"	65777H	----
64778H	----	2"	65778H	----
		2-1/2"	65779H	----
64780H	----	3"	65780H	----
64781H	----	4"	65781H	----

#304 STAINLESS STEEL MERCHANT COUPLINGS

PART #	SIZE	
61775	1	----
61776	1-1/4	----
61777	1-1/2	----
61778	2	----

Also available:
Extra Heavy Merchant Couplings

MERCHANT COUPLINGS SPECIFICATIONS

SIZE	OUTSIDE DIAM.	LENGTH INCHES	WEIGHT 100 PCS APPROX. POUNDS	QUANTITY PER BOX	THREADS PER INCH	THREADS TYPE
1/8"	.59"	.78	3.5	1000	27	Straight
1/4"	.73"	1.18	7.5	500	18	Straight
3/8"	.86"	1.18"	9	600	18	Straight
1/2"	1.063"	1-9/16"	13.0	100	14	Straight
3/4"	1.313"	1-5/8"	28.3	50	14	Straight
1"	1.576"	2"	40.1	30	11-1/2	Straight
1-1/4"	1.900"	2-1/16"	49.5	25	11-1/2	Straight
1-1/2"	2.17"	2-3/64"	71.48	25	11-1/2	Straight
2"	2.750"	2-1/8"	112.0	20	11-1/2	Straight
2-1/2"	3.250"	3-1/8"	231.2	8	8	Taper Tapped
3"	4.000"	3-1/4"	353.8	5	8	Taper Tapped
4"	5.000"	3-1/2"	471.8	4	8	Taper Tapped
6"	7.32	4"	1000.05	4	8	Taper Tapped

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

API LINE COUPLINGS

A105 BLACK STEEL TAPER TAPPED COUPLINGS

Product Specifications
These couplings are manufactured in accordance with American Petroleum Institute specifications 5L & 5B.
All couplings are phosphated.
All sizes are taper tapped 3/4" per foot on the diameter.

*Certified by the American Petroleum Institute

A105
- **Black Steel**
- **API line API SL**

- Each end has a short, unthreaded recess before the threads start.
- Use with sch 80 & sch. 160 nipples & pipe.
- Max. pressure: 3000PSI

API LINE PIPE COUPLINGS

PART #	NPT SIZE	THREADS PER INCH	OUTSIDE DIAMETER	LENGTH	UNIT WEIGHT	
65770API	1/8"	27	0.563	1-1/16	0.04	----
65771API	1/4"	18	0.719	1-5/8	0.10	----
65772API	3/8"	18	0.875	1-5/8	0.13	----
65773API	1/2"	14	1.063	2-1/8	0.24	----
65774API	3/4"	14	1.313	2-1/8	0.35	----
65775API	1"	11.5	1.576	2-5/8	0.52	----
65776API	1-1/4"	11.5	2.054	2-3/4	1.00	----
65777API	1-1/2"	11.5	2.200	2-3/4	0.88	----
65778API	2"	11.5	2.875	2-7/8	1.83	----
65779API	2-1/2"	8	3.375	4-1/8	3.28	----
65780API	3"	8	4.000	4-1/4	4.09	----
65781API	4"	8	5.200	4-1/2	7.59	----
65783API	6"	8	7.390	4-5/8	12.92	----
65784API	8"	8	9.625	5-3/4	23.18	----

I'm sorry, if you were right, I'd agree with you.
- Robin Williams

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

MALLEABLE FITTINGS

- Saturated steam pressure 150 PSI @ 350°F
- Max pressure 300 PSI @ 150°F
- Temp range -20°F to 350°F

ISO 9002 - CERTIFICATE OF QUALITY - UL/FM LISTED

Our quality fittings are made with care and attention to detail. With better molds we can reduce parting lines and rough edges resulting in better fluid flow. By using a low temperature galvanizing process the coating is more durable which means a longer lasting fitting. All Fittings are 100% Pressure Tested to 300# Class.

(Every fitting is subjected to an underwater fitness test to ensure the highest quality)

SPECIFICATIONS

• MATERIAL: ASTM A 197 - Cuppla Malleable Iron, ASTM A 153 - Hot dipped galvanizing • Coating ASTM A164 LS
• DIMENSIONS: ANSI B 16.3 - Malleable Iron threaded fittings, ANSI B 16.14 - Ferrous Pipe Plugs, Bushings etc..., ANSI B 16.39 - Malleable Iron threaded pipe unions.
• THREADS: ANSI B 2.1 or BS 21 ASME B1.20.1 • RoHS Compliant • Tapered Threads
• Pressure - Saturated steam 150 PSI @350°F: Max pressure 300 PSI - 150°F
• Temperature range -20 - 350°F

MALLEABLE IRON - ANSI B 16.3

F°	Class 150 PSIG	Sizes 1/4-1 300#	Sizes 1 1/4-2 300#	Sizes 2 1/4-3 300#
-200-150	300	2000	1500	1000
200	265	1785	1350	910
250	225	1575	1200	825
300	185	1360	1050	735
366*	150	1150	900	650

*Permissible for service temperature up to 366°F, reflecting the temperature of saturated steam at 150 psig.

STEEL FITTINGS

• 1010 Carbon Steel, 3/4 taper threads (see hydraulic section for 7/8 taper threads.)
• Finish or coating • Black Dipped in rust resistant
• Galvanized, Zinc Plated (Inside and Out)

300lb MALLEABLE FITTINGS

Max. pressure: 300 psi WOG @ 72°F; 150 psi WOG saturated steam

• Meet ANSI/ ASME B1.20.1 standards
• Black meet ASTM 197 standards

BULL PLUGS AND SWAGES

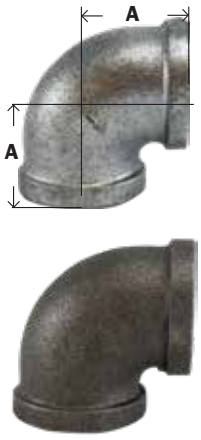
FLANGES

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED IRON #150

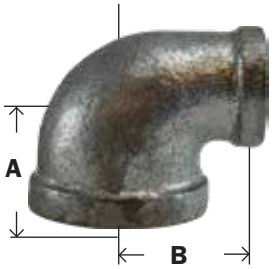
NIPPLES AND FITTINGS

ELBOWS 90°



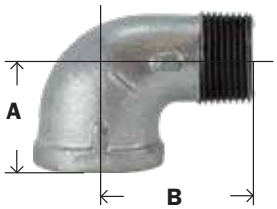
Part # Galvanized		Size	A	Box/ Case	Approx. Wt. Lbs.	Part # Black	
64100	----	1/8″	0.69	50/600	0.07	65100	----
64101	----	1/4″	0.81	35/420	0.10	65101	----
64102	----	3/8″	0.95	90/360	0.16	65102	----
64103	----	1/2″	1.12	50/200	0.23	65103	----
64104	----	3/4″	1.31	35/105	0.35	65104	----
64105	----	1″	1.50	20/60	0.57	65105	----
64106	----	1-1/4″	1.75	20/40	0.86	65106	----
64107	----	1-1/2″	1.94	15/30	1.31	65107	----
64108	----	2″	2.25	8/16	1.79	65108	----
64109	----	2-1/2″	2.70	6/12	3.35	65109	----
64110	----	3″	3.08	4/8	5	65110	----
64112	----	4″	3.79	1/2	9.02	65112	----
64114	----	6″	5.13	1/1	23.68	65114	----
		8"			41.1	65115	----

REDUCING ELBOWS 90°



PART # GALVANIZED		SIZE	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64122	----	3/8″ x 1/4″	0.88	0.90	90/360	0.16	65122	----
64123	----	1/2″ x 1/4″	0.97	0.98	60/240	0.21	65123	----
64124	----	1/2″ x 3/8″	1.04	1.03	60/240	0.24	65124	----
64126	----	3/4″ x 3/8″	1.12	1.13	40/160	0.31	65126	----
64127	----	3/4″ x 1/2″	1.20	1.22	40/160	0.44	65127	----
64130	----	1″ x 1/2″	1.26	1.40	25/100	0.52	65130	----
64131	----	1″ x 3/4″	1.37	1.45	50/100	0.58	65131	----
64133	----	1-1/4″ x 3/4″	1.45	1.62	15/120	0.79	65133	----
64134	----	1-1/4″ x 1″	1.58	1.67	10/40	0.80	65134	----
64136	----	1-1/2″ x 3/4″	1.52	1.75	10/40	0.88	65136	----
64137	----	1-1/2″ x 1″	1.65	1.80	10/40	1.07	65137	----
64138	----	1-1/2″ x 1-1/4″	1.82	1.88	15/30	1.12	65138	----
64140	----	2″ x 1″	1.73	2.02	14/28	1.41	65140	----
64141	----	2″ x 1-1/4″	1.90	2.10	10/20	1.53	65141	----
64142	----	2″ x 1-1/2″	2.02	2.16	10/20	1.65	65142	----
64145	----	2-1/2″ x 1-1/2″	2.16	2.51	6/12	2.97	65145	----
64146	----	2-1/2″ x 2″	2.39	2.60	6/12	3.18	65146	----
64148	----	3″ x 1-1/2″	2.28	2.83	6/18	4.54	65148	----

90° STREET ELBOWS



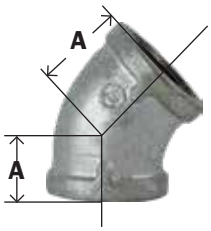
PART # GALVANIZED		SIZE	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64160	----	1/8″	0.69	1.00	60/720	.06	65160	----
64161	----	1/4″	0.80	1.17	35/420	.10	65161	----
64162	----	3/8″	0.95	1.48	40/240	.15	65162	----
64163	----	1/2″	1.10	1.59	60/180	.22	65163	----
64164	----	3/4″	1.28	1.85	35/105	.39	65164	----
64165	----	1″	1.47	2.10	35/105	.60	65165	----
64166	----	1-1/4″	1.75	2.57	25/50	.95	65166	----
64167	----	1-1/2″	1.90	2.63	9/27	1.37	65167	----
64168	----	2″	2.21	3.19	8/16	2.25	65168	----
64169	----	2-1/2″	2.65	3.78	5/10	3.32	65169	----
64170	----	3″	3.02	4.42	4/8	5.27	65170	----
64171	----	4″	3.72	5.57	2/4	8.94	65171	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED IRON #150

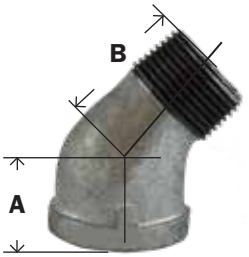
NIPPLES AND FITTINGS

ELBOWS 45°



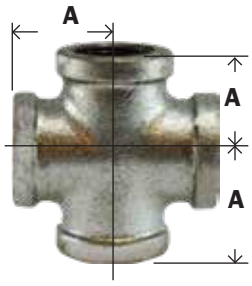
PART # GALVANIZED		SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64180	----	1/8″	0.63	50/600	.07	65180	----
64181	----	1/4″	0.73	30/360	.10	65181	----
64182	----	3/8″	0.80	75/300	.14	65182	----
64183	----	1/2″	0.88	50/200	.21	65183	----
64184	----	3/4″	0.98	40/120	.33	65184	----
64185	----	1″	1.12	20/60	.50	65185	----
64186	----	1-1/4″	1.29	20/40	.74	65186	----
64187	----	1-1/2″	1.43	10/30	1.01	65187	----
64188	----	2″	1.68	12/24	1.53	65188	----
64189	----	2-1/2″	1.95	9/18	2.78	65189	----
64190	----	3″	2.17	1/10	4.49	65190	----
64191	----	4″	2.61	2/4	7.44	65191	----
64192	----	6″	3.46	1/1	18.63	65192	----
		8"			26.40	65194	----

45° STREET ELBOWS



PART # GALVA-NIZED		SIZE	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64200	----	1/8″	0.63	0.83	70/840	.05	65200	----
64201	----	1/4″	0.73	0.94	40/480	.09	65201	----
64202	----	3/8″	0.80	1.03	100/400	.14	65202	----
64203	----	1/2″	0.86	1.30	75/225	.19	65203	----
64204	----	3/4″	0.96	1.48	40/120	.28	65204	----
64205	----	1″	1.10	1.69	25/75	.48	65205	----
64206	----	1-1/4″	1.26	1.87	10/40	.71	65206	----
64207	----	1-1/2″	1.40	2.05	10/30	1.02	65207	----
64208	----	2″	1.65	2.38	12/24	1.68	65208	----
64209	----	2-1/2″	1.95	2.72	6/12	2.69	65209	----
64210	----	3″	2.17	3.16	3/6	4.61	65210	----
64211	----	4″	2.61	3.90	2/4	7.74	65211	----

CROSSES



PART # GALVANIZED		SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64390	----	1/8″	0.65	50/600	.14	65390	----
64391	----	1/4″	0.80	60/240	.17	65391	----
64392	----	3/8″	0.95	50/150	.26	65392	----
64393	----	1/2″	1.12	30/90	.42	65393	----
64394	----	3/4″	1.31	20/60	.64	65394	----
64395	----	1″	1.50	15/30	.98	65395	----
64396	----	1-1/4″	1.75	10/20	1.45	65396	----
64397	----	1-1/2″	1.94	8/16	1.90	65397	----
64398	----	2″	2.25	5/10	2.96	65398	----
64399	----	2-1/2″	2.71	4/8	5.49	65399	----
64400	----	3″	3.06	2/4	7.71	65400	----
		4"		1/1	14.77	65401	----

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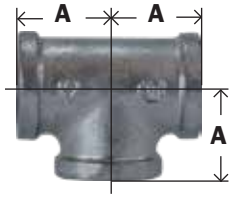
BLACK AND GALVANIZED IRON #150

NIPPLES AND FITTINGS

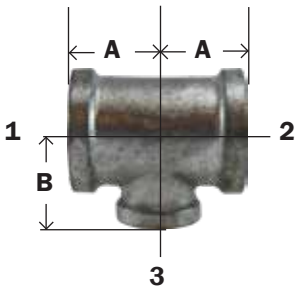
TEES



PART # GALVANIZED		SIZE	A	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
64250	----	1/8″	0.69	120/480	.11	65250	----
64251	----	1/4″	0.81	75/300	.15	65251	----
64252	----	3/8″	0.95	45/180	.22	65252	----
64253	----	1/2″	1.12	40/120	.36	65253	----
64254	----	3/4″	1.31	35/70	.48	65254	----
64255	----	1″	1.50	20/40	.83	65255	----
64256	----	1-1/4″	1.75	14/28	1.29	65256	----
64257	----	1-1/2″	1.94	12/24	1.66	65257	----
64258	----	2″	2.26	8/16	2.50	65258	----
64259	----	2-1/2″	2.70	4/8	4.45	65259	----
64260	----	3″	3.08	1/6	6.72	65260	----
64261	----	4″	3.79	1/2	11.31	65261	----
64262	----	6″	5.13	1/1	30.75	65262	----
		8"			37.85	65264	----

REDUCING TEES

(SAME SIZE ON RUN, REDUCING ON BRANCH)

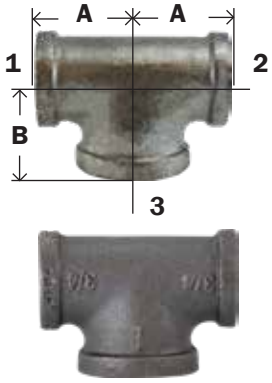


PART # GALVA-NIZED		SIZE (1&2) X 3	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64273	----	3/8″ x 1/4″	0.81	0.90	25/300	.18	65273	----
64276	----	1/2″ x 1/4″	0.97	0.98	40/160	.24	65276	----
64279	----	1/2″ x 3/8″	1.04	1.03	40/160	.35	65279	----
64282	----	3/4″ x 1/4″	1.05	1.08	25/100	.43	65282	----
64283	----	3/4″ x 3/8″	1.12	1.13	25/100	.39	65283	----
64286	----	3/4″ x 1/2″	1.20	1.18	20/80	.49	65286	----
64268	----	1″ x 1/4″	1.11	1.22	20/80	.51	65268	----
64269	----	1″ x 3/8″	1.18	1.27	15/60	.55	65269	----
64291	----	1″ x 1/2″	1.26	1.40	15/60	.63	65291	----
64298	----	1″ x 3/4″	1.37	1.45	12/48	.71	65298	----
64301	----	1-1/4″ x 1/2″	1.34	1.45	20/40	.91	65301	----
64303	----	1-1/4″ x 3/4″	1.45	1.62	20/40	.99	65303	----
64306	----	1-1/4″ x 1″	1.58	1.66	20/40	1.07	65306	----
64721	----	1-1/2" x 1/2"				1.12	65721	----
64316	----	1-1/2″ x 3/4″	1.41	1.75	15/30	1.23	65316	----
64318	----	1-1/2″ x 1″	1.65	1.88	10/30	1.33	65318	----
64322	----	1-1/2″ x 1-1/4″	1.65	1.88	12/24	1.52	65322	----
64327	----	2″ x 1/2″	1.49	1.88	10/20	1.64	65327	----
64328	----	2″ x 3/4″	1.60	1.97	10/20	1.71	65328	----
64330	----	2″ x 1″	1.73	2.02	10/20	1.88	65330	----
64334	----	2″ x 1-1/4″	1.86	2.06	8/16	2.03	65334	----
64336	----	2″ x 1-1/2″	1.98	2.12	8/16	2.22	65336	----
		2-1/2" x 1"				2.85	65342	----
64343	----	2-1/2″ x 1-1/2″	2.16	2.51	5/10	2.97	65343	----
64729	----	3" x 1"	2.00	2.00	3/6	4.15		
		3" x 1-1/2"				5.19	65359	----
64351	----	3″ x 2″	2.52	2.89	3/6	5.35	65351	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

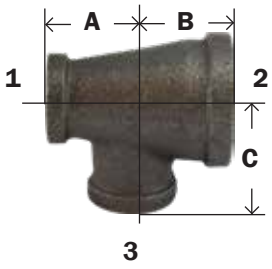
BLACK AND GALVANIZED IRON #150
NIPPLES AND FITTINGS

BULLHEAD TEES



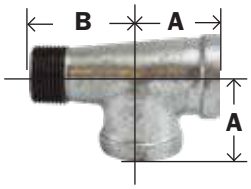
PART # GALVANIZED		SIZE (1&2) X 3	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64280	----	1/2" x 3/4"	1.22	1.20	30/120	.4	65280	----
64733	----	1/2" x 1"	1.36	1.26	25/100	.50	65733	----
64289	----	3/4" x 1"	1.45	1.37	20/120	.60	65289	----
64299	----	1" x 1-1/4"	1.67	1.58	15/30	.96	65299	----
64300	----	1" x 1-1/2"	1.80	1.65	9/36	1.11	65300	----
64317	----	1-1/4" x 1-1/2"	1.88	1.82	12/24	1.07	65317	----

REDUCING TEES
REDUCING ON RUN



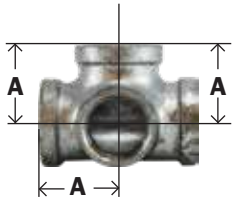
PART # BLACK	SIZE 1 X 2 X 3	A	B	C	BOX/CASE	APPROX. WT. LBS.	
65287	3/4" x 1/2" x 1/2"	1.18	1.18	1.20	25/100	0.39	----
65288	3/4" x 1/2" x 3/4"	1.28	1.20	1.28	20/80	0.49	----
65292	1" x 1/2" x 1/2"	1.31	1.22	1.31	20/80	0.51	----
65293	1" x 1/2" x 3/4"	1.22	1.37	1.45	20/80	0.53	----
65294	1" x 1/2" x 1"	1.40	1.50	1.50	15/60	0.54	----
65295	1" x 3/4" x 1/2"	1.20	1.26	1.40	20/80	0.58	----
65296	1" x 3/4" x 3/4"	1.34	1.28	1.42	15/60	0.63	----
65297	1" x 3/4" x 1"	1.45	1.50	1.50	15/60	0.62	----
65347	1-1/4" x 3/4" x 3/4"	1.31	1.45	1.64	10/40	0.66	----
65305	1-1/4" x 3/4" x 1-1/4"	1.62	1.75	1.75	10/40	1.14	----
65309	1-1/4" x 1"x 1"	1.55	1.47	1.63	20/40	1.00	----
65346	1-1/4" x 3/4" x 1/2"	1.31	1.45	1.64	20/40	1.05	----
65349	1-1/4" x 1" x 1/2"	1.26	1.34	1.53	20/40	1.10	----
65350	1-1/4" x 1" x 3/4"						----
65310	1-1/4" x 1" x 1-1/4"	1.30	1.36	1.44	15/30	1.21	----
65372	1-1/2" x 1" x 1"	1.50	1.65	1.78	15/30	1.28	----
65375	1-1/2" x 1-1/4" x 3/4"	1.43	1.52	1.25	15/30	1.30	----
65377	1-1/2" x 1-1/4" x 1-1/4"	1.75	1.82	1.88	15/30	1.35	----
65267	2" x 3/4" x 2"						----
65312	2" x 1-1/2" x 1-1/4"	1.82	1.90	2.10	10/30	1.21	----
65313	2" x 1-1/2" x 1-1/2"	1.94	2.02	2.16	10/30	1.79	----

MALLEABLE SERVICE TEE (STREET TEE)



PART # GALVANIZED		SIZE	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64363	----	1/2"	1.12	1.62	40/12	0.31	65363	----
64364	----	3/4"	1.31	1.89	25/75	0.49	65364	----

SIDE OUTLET TEES



PART # GALVANIZED		SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64383	----	1/2"	1.12	25/100	.39	65383	----
64384	----	3/4"	1.31	15/60	.58	65384	----
64385	----	1"	1.50	20/40	.88	65385	----
64386	----	1-1/4"	1.75	12/24	1.32	65386	----
		1-1/2"	1.97	1/1	1.56	65387	----
		2"	2.29	1/1	1.81	65388	----

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BLACK AND GALVANIZED IRON #150

NIPPLES AND FITTINGS

COUPLINGS

PART # GALVANIZED		SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64410	----	1/8″	0.96	70/840	.07	65410	----
64411	----	1/4″	1.06	40/480	.09	65411	----
64412	----	3/8″	1.16	40/480	.13	65412	----
64413	----	1/2″	1.34	60/240	.19	65413	----
64414	----	3/4″	1.52	50/150	.28	65414	----
64415	----	1″	1.67	25/100	.45	65415	----
64416	----	1-1/4″	1.93	16/64	.66	65416	----
64417	----	1-1/2″	2.15	18/36	.84	65417	----
64418	----	2″	2.54	12/24	1.39	65418	----
64419	----	2-1/2″	2.88	8/16	2.42	65419	----
64420	----	3″	3.18	1/12	3.49	65420	----
64421	----	4″	3.69	3/6	5.81	65421	----
64422	----	6″	4.23	1/2	28.62	65422	----

REDUCING COUPLINGS

PART # GALVA-NIZED		SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64430	----	1/4″ x 1/8″	1.00	50/600	.07	65430	----
64431	----	3/8″ x 1/8″	1.13	35/420	.09	65431	----
64432	----	3/8″ x 1/4″	1.13	30/360	.11	65432	----
64433	----	1/2″ x 1/8″	1.25	75/300	.13	65433	----
64434	----	1/2″ x 1/4″	1.25	75/300	.11	65434	----
64435	----	1/2″ x 3/8″	1.25	60/240	.15	65435	----
64439	----	3/4″ x 1/8″	1.44	60/240	.18	65439	----
64436	----	3/4″ x 1/4″	1.44	45/18	.19	65436	----
64437	----	3/4″ x 3/8″	1.44	45/18	.21	65437	----
64438	----	3/4″ x 1/2″	1.44	60/180	.25	65438	----
64459	----	1″ x 1/4″	1.69	45/135	.34	65459	----
64440	----	1″ x 3/8″	1.69	30/120	.35	65440	----
64441	----	1″ x 1/2″	1.69	30/120	.36	65441	----
64442	----	1″ x 3/4″	1.69	25/100	.39	65442	----
64460	----	1-1/4″ x 3/8″	2.06	25/75	.55	65460	----
64444	----	1-1/4″ x 1/2″	2.06	25/75	.53	65444	----
64445	----	1-1/4″ x 3/4″	2.06	25/75	.57	65445	----
64446	----	1-1/4″ x 1″	2.06	15/60	.61	65446	----
64443	----	1-1/2″ x 3/8″	2.31	20/60	.71	65443	----
64447	----	1-1/2″ x 1/2″	2.31	20/60	.69	65447	----
64448	----	1-1/2″ x 3/4″	2.31	15/60	.71	65448	----
64449	----	1-1/2″ x 1″	2.31	25/50	.78	65449	----
64450	----	1-1/2″ x 1-1/4″	2.31	12/48	.87	65450	----
64458	----	2″ x 1/2″	2.81	12/36	1.14	65458	----
64451	----	2″ x 3/4″	2.81	12/36	1.14	65451	----
64452	----	2″ x 1″	2.81	12/36	1.21	65452	----
64453	----	2″ x 1-1/4″	2.81	9/27	1.19	65453	----
64454	----	2″ x 1-1/2″	2.81	9/27	1.38	65454	----
64461	----	2-1/2″ x 1-1/2″	3.25	20/40	2.07	65461	----
64462	----	2-1/2″ x 2″	3.25	7/14	2.23	65462	----
64486	----	3″ x 1-1/2″	3.69	6/12	3.23	65486	----
64456	----	3″ x 2″	3.69	6/12	3.30	65456	----
64463	----	3″ x 2-1/2″	3.69	5/10	3.55	65463	----
64464	----	4″ x 2″	4.38	3/6	5.55	65464	----
64465	----	4″ x 2-1/2″	4.38	3/6	5.90	65465	----
64457	----	4″ x 3″	4.38	3/6	6.05	65457	----

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BLACK AND GALVANIZED IRON #150

NIPPLES AND FITTINGS

HEX BUSHING

* INSIDE HEX

PART # GALVANIZED		SIZE M X F	A	HEX	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64500	----	*1/4" x 1/8"	0.79	0.67	1/25	.03	65500	----
64501	----	*3/8" x 1/8"	0.79	0.75	1/25	.06	65501	----
64502	----	*3/8" x 1/4"	0.79	0.75	1/25	.05	65502	----
64503	----	1/2" x 1/8"	0.84	1.03	150/600	.09	65503	----
64504	----	1/2" x 1/4"				.08	65504	----
64505	----	1/2" x 3/8"	0.75	1.03	150/600	.07	65505	----
64506	----	3/4" x 1/8"	0.85	1.15	75/300	.14	65506	----
64507	----	3/4" x 1/4"	0.85	1.15	75/300	.13	65507	----
64508	----	3/4" x 3/8"	0.85	1.15	75/300	.12	65508	----
64509	----	3/4" x 1/2"	0.93	1.15	75/300	.10	65509	----
64510*	----	1" x 1/4"	1.13	1.12	50/200	.20	65510*	----
64511*	----	1" x 3/8"	1.13	1.12	50/200	.18	65511*	----
64512	----	1" x 1/2"	1.10	1.42	50/200	.21	65512	----
64513	----	1" x 3/4"	1.10	1.42	50/200	.17	65513	----
64514*	----	1-1/4" x 1/4"	1.24	1.12	30/120	.29	65514*	----
64515*	----	1-1/4" x 3/8"	1.24	1.12	30/120	.29	65515*	----
64516*	----	1-1/4" x 1/2"	1.24	1.24	30/120	.31	65516*	----
64517	----	1-1/4" x 3/4"	1.08	1.76	30/120	.35	65517	----
64518	----	1-1/4" x 1"	1.08	1.76	30/120	.29	65518	----
64519*	----	1-1/2" x 1/4"	1.30	1.12	25/75	.40	65519*	----
64520*	----	1-1/2" x 3/8"	1.30	1.12	25/75	.38	65520*	----
64521*	----	1-1/2" x 1/2"	1.30	1.34	25/75	.38	65521*	----
64522*	----	1-1/2" x 3/4"	1.30	1.44	25/75	.40	65522*	----
64523	----	1-1/2" x 1"	1.23	2.00	25/75	.45	65523	----
64524	----	1-1/2" x 1-1/4"	1.23	2.00	25/75	.34	65524	----
64526	----	2" x 1/4"	1.29	1.12	20/60	.57	65526	----
64525*	----	2" x 3/8"	1.28	1.12	20/60	.57	65525*	----
64527*	----	2" x 1/2"	1.39	1.34	20/60	.57	65527*	----
64528*	----	2" x 3/4"	1.39	1.63	20/60	.63	65528*	----
64529*	----	2" x 1"	1.39	1.77	20/60	.66	65529*	----
64530	----	2" x 1-1/4"	1.50	2.48	20/60	.74	65530	----
64531	----	2" x 1-1/2"	1.50	2.48	20/60	.61	65531	----
64546*	----	2-1/2" x 1/2"	1.51	1.34	15/30	.97	65546*	----
64547*	----	2-1/2" x 3/4"	1.51	1.63	15/30	.91	65547*	----
64532*	----	2-1/2" x 1"	1.51	1.95	15/30	.97	65532*	----
64533*	----	2-1/2" x 1-1/4"	1.51	2.39	15/30	1.03	65533*	----
64534	----	2-1/2" x 1-1/2"	1.51	2.98	15/30	1.16	65534	----
64535	----	2-1/2" x 2"	1.54	2.98	15/30	1.01	65535	----
64550	----	3" x 1"	1.61	1.95	12/24	1.41	65550	----
64549*	----	3" x 1-1/4"	1.61	2.39	12/24	1.42	65549*	----
64537*	----	3" x 1-1/2"	1.61	2.68	12/24	1.51	65537*	----
64538	----	3" x 2"	1.61	3.86	12/24	1.71	65538	----
64539	----	3" x 2-1/2"	1.61	3.86	12/24	1.68	65539	----
		3-1/2" x 3"	1.86	4.20	5/10	2.17	65555	----
64551	----	4" x 3/4"	2.15	4.90	5/10	3.88	65551	----
64553*	----	4" x 1"	2.00	4.75	5/10	3.79	65553*	----
64552	----	4" x 1-1/4"	1.82	2.39	5/10	2.39	65552	----
64540	----	4" x 1-1/2"	1.82	2.68	5/10	2.39	65540	----
64541*	----	4" x 2"	1.82	3.31	5/10	2.52	65541*	----
64542*	----	4" x 2-1/2"	2.06	3.87	5/10	2.87	65542*	----
64543	----	4" x 3"	2.17	4.96	5/10	2.95	65543	----
		5" x 4"	2.16	5.34	2/4	6.80	65544	----
64545*	----	6" x 4"	2.33	5.79	2/4	7.11	65545*	----

NOTE: ADD DT TO THE PART# FOR A DOUBLE-TAPPED BUSHING

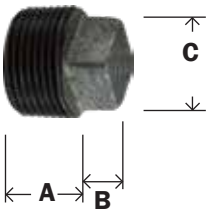
BLACK AND GALVANIZED IRON #150
NIPPLES AND FITTINGS

UNIONS

• Brass Seat

PART # GALVANIZED		SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64600	----	1/8″	1.26	60/240	.17	65600	----
64601	----	1/4″	1.44	20/240	.25	65601	----
64602	----	3/8″	1.61	40/160	.37	65602	----
64603	----	1/2″	1.72	50/100	.52	65603	----
64604	----	3/4″	1.94	35/70	.78	65604	----
64605	----	1″	2.06	20/40	1.18	65605	----
64606	----	1-1/4″	2.26	15/30	1.64	65606	----
64607	----	1-1/2″	2.41	10/20	2.08	65607	----
64608	----	2″	2.75	6/12	3.24	65608	----
64609	----	2-1/2″	3.22	4/8	5.31	65609	----
64610	----	3″	3.50	4/8	6.94	65610	----
64611	----	4″	3.85	2/4	12.02	65611	----

SQUARE HEAD PLUGS



• Cored

PART # GALVANIZED		SIZE	A	B	C	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
		*1/8"	0.41	0.23	0.30	1/25	.02	65650	----
64651	----	*1/4″	0.48	0.28	0.38	1/25	.03	65651	----
64652	----	*3/8″	0.53	0.31	0.43	1/25	.04	65652	----
64653	----	1/2″	0.58	0.38	0.56	50/600	.08	65653	----
64654	----	3/4″	0.65	0.44	0.63	30/360	.13	65654	----
64655	----	1″	0.75	0.50	0.82	20/240	.22	65655	----
64656	----	1-1/4″	0.82	0.56	0.94	40/120	.33	65656	----
64657	----	1-1/2″	0.85	0.62	1.13	30/90	.41	65657	----
64658	----	2″	0.91	0.68	1.31	20/60	.68	65658	----
64659	----	2-1/2″	1.26	0.74	1.50	16/64	.89	65659	----
64660	----	3″	1.16	0.80	1.69	16/32	1.68	65660	----
64661	----	4″	1.22	1.00	2.28	6/12	3.02	65661	----
		6"	1.85	1.13	5.97	5/10	11.41	65662	----
		8"				1/1		65664	----

CAPS

PART # GALVANIZED		SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64470	----	1/8"	0.55	1/25	.03	65470	----
64471	----	1/4"	0.62	80/960	.07	65471	----
64472	----	3/8″	0.74	60/720	.08	65472	----
64473	----	1/2″	0.87	75/300	.13	65473	----
64474	----	3/4″	0.97	40/160	.18	65474	----
64475	----	1″	1.16	25/100	.30	65475	----
64476	----	1-1/4″	1.28	20/80	.47	65476	----
64477	----	1-1/2″	1.33	18/54	.66	65477	----
64478	----	2″	1.45	12/36	.99	65478	----
64479	----	2-1/2″	1.70	20/40	1.58	65479	----
64480	----	3″	1.80	12/24	2.51	65480	----
64481	----	4″	2.08	6/12	4.09	65481	----
64482	----	6″	2.55	2/4	5.18	65482	----

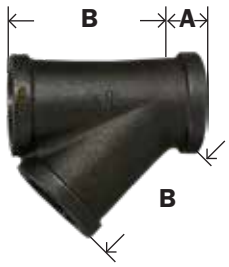
* Use steel fittings for smaller sizes. See page 313-314 for Galvanized and Black Steel Fittings.

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED IRON #150

NIPPLES AND FITTINGS

LATERAL Ys

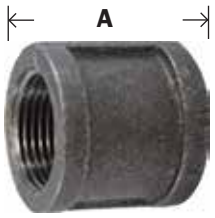


PART #	SIZE	A	B	CASE	WEIGHT	
65963	1/2	2.32	1.71	120	.35	----
65964	3/4	2.77	2.05	60	.58	----
65965	1	3.28	2.42	40	.97	----
65966	1-1/4	3.94	2.92	24	1.44	----
65967	1-1/2	4.38	3.28	16	1.93	----
65968	2	5.41	3.98	8	3.12	----
65969	2-1/2	6.25	4.73	4	5.61	----
65970	3	7.26	5.55	2	8.36	----
65971	4	8.98	6.97	2	14.88	----

LOCKNUTS

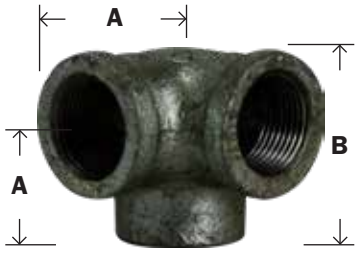
PART # GALV		SIZE	A HEX	THICK-NESS	BOX/ CASE	WEIGHT	PART # BLACK	
64703	----	1/2		0.31	150/600	0.08	65703	----
64704	----	3/4		0.34	90/360	0.13	65704	----
64705	----	1		0.38	60/240	0.19	65705	----
64706	----	1-1/4		0.42	45/180	0.27	65706	----
64707	----	1-1/2		0.47	45/135	0.47	65707	----
64708	----	2		0.53	25/75	0.56	65708	----

RIGHT & LEFT COUPLINGS



PART # GALV		SIZE	A	CASE	WEIGHT	PART # BLACK	
64573	----	1/2	1.34	240	0.19	65573	----
64574	----	3/4	1.52	150	0.28	65574	----
64575	----	1	1.67	100	0.45	65575	----
64576	----	1-1/4	1.93	64	0.66	65576	----
64577	----	1-1/2	2.15	36	0.84	65577	----
64578	----	2	2.53	24	1.39	65578	----

SIDE OUTLET ELBOW



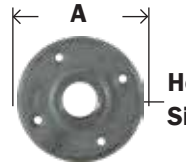
PART # GALV		SIZE	A	B	CASE	PART # BLACK	
64583	----	1/2	1.10		135	65583	----
64584	----	3/4	1.30		80	65584	----
64585	----	1	1.50		40	65585	----
64586	----	1-1/4	1.77		30	65586	----
64587	----	1-1/2	1.97		24	65587	----
64588	----	2	2.29		10	65588	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED IRON #150

NIPPLES AND FITTINGS

FLOOR FLANGES



PART # GALVA-NIZED		SIZE	A	THICK-NESS	HOLE SIZE	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64692	----	1/2″	3.50	0.50	0.25	25/100	.63	65692	----
64693	----	3/4″	3.50	0.63	0.25	15/45	.73	65693	----
64694	----	1″	4.00	0.69	0.25	15/45	1.02	65694	----
64695	----	1-1/4″	4.00	0.75	0.25	15/30	1.00	65695	----
64696	----	1-1/2″	4.50	0.87	0.31	8/24	1.37	65696	----

EXTENSION FIP X MIP

PART #	SIZE	APPROX. WT. LBS.	BOX/CASE	
65621	1/2"	0.12	75 / 300	----
65622	3/4"	0.23	40 / 160	----

MUSHROOM VENT CAP

Cast Iron Galvanized Threaded Cap. 30 Mesh screen. Protects against driving rain, snow, sleet and insects.

PART #	SIZE	
21174	3/4"	----
21175	1"	----
21176	1-1/2"	----
21177	1-1/2"	----
21178	2"	----
21179	3"	----
21180	4"	----

DOUBLE TAPPED BUSHINGS

DUPLEX TANK BUSHINGS

WASTE NUT

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STEEL FITTINGS

This will certify that the material was manufactured in accordance with ASME B16.14 - 1991 Standards. All Threads are Dryseal (NPTF) - 3/4 inch taper per foot and are made of Carbon Steel 12L14. Pressure rating: 150/300 PSI

- Clear Zinc plating specifications ASTM B633-07
- Federal Specification QQ-Z-325 (Zinc Plate)
- Type III with supplemental clear Trivalent chromate
- .00015" Zinc (Minimum)
- ROHS Compliant
- Lead Free

HEX BUSHINGS

PART # ZINC		SIZE M X F	A	HEX	APPROX. WT. LBS.	PART # BLACK	
66500	----	1/4" x 1/8"	0.63	0.62	0.02	67500	----
66501	----	3/8" x 1/8"	0.66	0.68	0.04	67501	----
66502	----	3/8" x 1/4"	0.66	0.68	0.02	67502	----
66503	----	1/2" x 1/8"	0.80	0.87	0.10	67503	----
66504	----	1/2" x 1/4"	0.80	0.87	0.08	67504	----
66505	----	1/2" x 3/8"	0.80	0.87	0.06	67505	----
66506	----	3/4" x 1/8"	0.94	1.06	0.18	67506	----
66507	----	3/4" x 1/4"	0.94	1.06	0.14	67507	----
66508	----	3/4" x 3/8"	0.94	1.06	0.14	67508	----
66509	----	3/4" x 1/2"	0.94	1.06	0.10	67509	----
66510	----	1" x 1/4"	1.00	1.31	0.16	67510	----
66511	----	1" x 3/8"	1.00	1.31	0.26	67511	----
66512	----	1" x 1/2"	1.00	1.31	0.22	67512	----
66513	----	1" x 3/4"	1.00	1.31	0.14	67513	----
		1-1/4" x 1/8"	1.08	1.31	0.16	67514	----

FACE BUSHING

PART # ZINC		SIZE M X F	A	APPROX. WT. LBS.	PART # BLACK	
66700	----	1/4" x 1/8"	0.44	0.01	67700	----
66701	----	3/8" x 1/8"	0.48	0.02	67701	----
66702	----	3/8" x 1/4"	0.48	0.02	67702	----
		1/2" x 1/8"	0.56	0.04	67703	----
66704	----	1/2" x 1/4"	0.56	0.04	67704	----
66705	----	1/2" x 3/8"	0.56	0.04	67705	----
		3/4" x 1/4"	0.62	0.12	67707	----
66708	----	3/4" x 3/8"	0.62	0.10	67708	----
66709	----	3/4" x 1/2"	0.62	0.10	67709	----
		1" x 3/8"	0.75	0.18	67711	----
66712	----	1" x 1/2"	0.75	0.16	67712	----
66713	----	1" x 3/4"	0.75	0.16	67713	----

CAPS

PART # ZINC		SIZE NPTF	A	HEX	APPROX. WT. LBS.	PART # BLACK	
66470	----	1/8"	0.53	0.56	0.02	67470	----
66471	----	1/4"	0.63	0.62	0.04	67471	----
66472	----	3/8"	0.69	0.81	0.06	67472	----
66473	----	1/2"	0.87	1.00	0.12	67473	----
66474	----	3/4"	0.97	1.18	0.16	67474	----
66475	----	1"	1.16	1.50	0.30	67475	----
66476	----	1-1/4"	1.28	2.00	0.68	67476	----
66477	----	1-1/2"	1.35	2.25	0.83	67477	----
66478	----	2"	1.45	2.625	1.36		

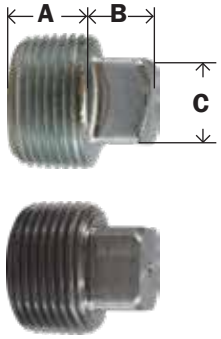
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STEEL FITTINGS
NIPPLES AND FITTINGS

This will certify that the plugs are dimensional per SAE J531 MAY 95 Standards. All threads are Dryseal (NPTF) - 3/4"Taper per foot and are made of SAE J403 Low Carbon Steel 1010 Cold headed.

SQUARE HEAD PLUGS

• Solid



PART # ZINC		SIZE NPTF	A	B	C	APPROX. WT. LBS.	PART # BLACK	
		1/16″	0.33	0.18	0.22	0.01	67669	----
66670	----	1/8″	0.33	0.24	0.28	0.01	67670	----
66671	----	1/4″	0.45	0.28	0.37	0.02	67671	----
66672	----	3/8″	0.50	0.31	0.43	0.04	67672	----
66653	----	1/2″	0.59	0.38	0.55	0.12	67653	----
66654	----	3/4″	0.63	0.44	0.62	0.18	67654	----
66655	----	1"	0.75	0.5	0.81	0.34	67655	----
66656	----	1-1/4"	0.80	0.56	0.93	0.62	67656	----
66657	----	1-1/2"	0.83	0.62	1.12	0.82	67657	----
66658	----	2"	0.88	0.68	1.31	1.36	67658	----

HEX HEAD PLUGS

• Solid

Hex

PART # ZINC		SIZE NPTF	A	HEX	APPROX. WT. LBS.	PART # BLACK	
66770	----	1/8″	0.55	0.43	0.01	67770	----
66771	----	1/4″	0.74	0.56	0.04	67771	----
66772	----	3/8″	0.67	0.68	0.06	67772	----
66773	----	1/2″	0.80	0.70	0.12	67773	----
66774	----	3/4″	0.94	1.06	0.18	67774	----
66775	----	1″	1.00	1.31	0.22	67775	----
66776	----	1-1/4"	1.17	1.75	0.7	67776	----
66777	----	1-1/2"	1.51	2.00	1.2	67777	----
66778	----	2"	1.65	2.50	2.06	67778	----

COUNTERSUNK PLUG - Square Socket

PART # ZINC		SIZE NPTF	A	SOCKET SIZE	APPROX. WT. LBS.	PART # BLACK	
66630	----	1/8″	0.29	0.19	0.01	67630	----
66631	----	1/4″	0.45	0.25	0.02	67631	----
66632	----	3/8″	0.45	0.31	0.04	67632	----
66633	----	1/2″	0.59	0.38	0.08	67633	----
66634	----	3/4″	0.60	0.50	0.12	67634	----
66635	----	1″	0.75	0.50	0.16	67635	----
66636	----	1-1/4"	0.80	0.75	0.32	67636	----
66637	----	1-1/2"	0.83	0.75	0.45	67637	----
66638	----	2"	0.88	0.875	2.06	67638	----

COUNTERSUNK PLUG - Hex Socket

PART # ZINC		SIZE NPTF	A	SOCKET SIZE	APPROX. WT. LBS.	PART # BLACK	
66760	----	1/16″	0.29	0.15	0.01	67760	----
66761	----	1/8″	0.29	0.18	0.01	67761	----
66762	----	1/4″	0.44	0.25	0.02	67762	----
66763	----	3/8″	0.44	0.31	0.04	67763	----
66764	----	1/2″	0.59	0.37	0.08	67764	----
66765	----	3/4″	0.60	0.56	0.14	67765	----
66766	----	1″	0.75	0.625	0.22	67766	----
66767	----	1-1/4"	0.80	0.75	0.37	67767	----
66768	----	1-1/2"	0.83	1.0	0.45	67768	----
66769	----	2"	0.88	1.0	0.86	67769	----

• Slotted and Flush plugs available upon request

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

300# MALLEABLE

90° ELBOW

PART #	SIZE	
69101	1/4"	----
69102	3/8"	----
69103	1/2"	----
69104	3/4"	----
69105	1"	----
69106	1-1/4"	----
69107	1-1/2"	----
69108	2"	----

45° ELBOW

PART #	SIZE	
69181	1/4"	----
69182	3/8"	----
69183	1/2"	----
69184	3/4"	----
69185	1"	----
69186	1-1/4"	----
69187	1-1/2"	----
69188	2"	----

90° STREET ELBOW

PART #	SIZE	
69161	1/4"	----
69162	3/8"	----
69163	1/2"	----
69164	3/4"	----
69165	1"	----
69166	1-1/4"	----
69167	1-1/2"	----
69168	2"	----

TEE

PART #	SIZE	
69252	3/8"	----
69253	1/2"	----
69254	3/4"	----
69255	1"	----
69256	1-1/4"	----
69257	1-1/2"	----
69258	2"	----

COUPLING

PART #	SIZE	
69411	1/4"	----
69412	3/8"	----
69413	1/2"	----
69414	3/4"	----
69415	1"	----
69416	1-1/4"	----
69417	1-1/2"	----
69418	2"	----

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For more information, visit www.P65Warnings.ca.gov

REDUCING COUPLING

PART #	SIZE	
69432	3/8 x 1/4"	----
69434	1/2 x 1/4"	----
69435	1/2 x 3/8"	----
69438	3/4 x 1/2"	----
69441	1 x 1/2"	----
69442	1 x 3/4"	----

CAP

PART #	SIZE	
69471	1/4"	----
69472	3/8"	----
69473	1/2"	----
69474	3/4"	----
69475	1"	----
69476	1-1/4"	----
69477	1-1/2"	----
69478	2"	----

UNION

• Brass Seat

PART #	SIZE	
69600	1/8"	----
69601	1/4"	----
69602	3/8"	----
69603	1/2"	----
69604	3/4"	----
69605	1"	----
69606	1-1/4"	----
69607	1-1/2"	----
69608	2"	----

STEEL MAGNETIC PLUGS

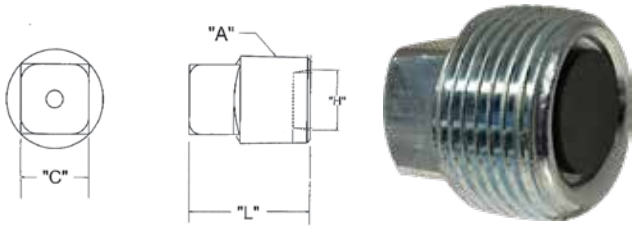
Steel Magnetic Drain Plugs - NPT Threaded

Magnetic Drain Plugs are similar to standard pipe or straight thread drain plugs with one important difference - a permanent magnet is fastened to the plug body. This magnet attracts and holds abrasive, ferrous metal particles preventing their circulation through the lubrication or hydraulic system.

These abrasive, ferrous metal particles appear in lubricating or hydraulic systems as a result of the following conditions:
• The constant flaking effect of normal wear of moving parts.
• Particles not removed by flushing operations after boring or machining.
• Chipping due to sub-surface casting flaws.
• Minute component breakdown caused by stress usage.

Magnetic Drain Plugs prevent excessive wear to the system's components.

Magnetic Plugs are used by numerous manufacturers of gear boxes, transmissions, engines, and hydraulic systems for the automotive, aircraft, agricultural and machinery industries.
Typical applications include:
• Outboard Engines
• Earthmoving Equipment
• Combines
• Balers
• Crawler Tractors
• Lift Trucks
• Mining Equipment
• Military Vehicles
• Turbine Engines
• Truck Axles
• Heavy-Duty Transmissions



PART	SIZE "A"	HEAD WIDTH "C"	RECESS DIA. "H"	O/L LENGTH "L"	
28996	3/8 - 18	.428 - .440	.435 - .445	.805 - .860	----
28997	1/2 - 14	.553 - 565	.560 - .570	.970 -1.04	----
28998	3/4 - 14	.615 - .627	.725 - .735	1.120 - 1.170	----
28999	1-11 1/2	.803 - 815	.895 - .905	1.25 - 1.33	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BULL PLUGS AND SWAGES

STANDARD BULL PLUG

- Sch 40 150#
- Zinc plated

PART #	DESCRIPTION	
91008	2"	----
91007	2" w/ 1/2" TAP	----
91009	2-1/2"	----
91010	3"	----
91011	4"	----

XH BULL PLUG

- Made from sch. 80 pipe.
- Zinc plated
- Hollow

PART #	DESCRIPTION	
90001	1/4"	----
90002	3/8"	----
90003	1/2"	----
90004	3/4"	----
90005	1"	----
90006	1-1/4"	----
90007	1-1/2"	----
90008	2"	----
93001*	2"	----
90213	2" w/ 1/4" TAP	----
90212	2" w/ 1/2" TAP	----
93212*	2"XXH w/1/2" TAP	----
90009	2-1/2"	----
90010	3"	----
90215	3" w/ 1/2" TAP	----
90011	4"	----

* XXH

STANDARD SCH. 40 SWAGE
MIP X MIP

- Zinc plated

PART #	DESCRIPTION	
93113	1-1/4" x 1"	----
93121	2" x 1"	----
93122	2" x 1-1/4"	----
93123	2" x 1-1/2"	----
93124	2-1/2" x 2"	----
93125	3" x 1"	----
93127	3" x 1-1/2"	----
93128	3" x 2"	----
93129	3" x 2-1/2"	----
93130	4" x 2"	----
93131	4" x 3"	----
93139	6" x 3"	----

Pressure Ratings: Due to the wide variation in service conditions, temperature, vibrations, etc...We can make no recommendations as to allowable working pressure of swage nipples and bull plugs. There are a number of working pressure formulas from which the end user may choose to determine the required wall thickness of the piping system. It is our responsibility only to furnish a fitting with end dimensions equal to those of the pipe size and schedule ordered.

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

SCH 80 XH SWAGES
MIP X MIP

* Hex Style

PART #	DESCRIPTION	
90100*	1/4" x 1/8"	----
90102*	1/2" x 1/4"	----
90103*	1/2" x 3/8"	----
90104*	3/8" x 1/4"	----
90105*	3/4" x 1/4"	----
90106*	3/4" x 3/8"	----
90107*	3/4" x 1/2"	----
90108*	1" x 1/4"	----
90109*	1" x 3/8"	----
90110*	1" x 1/2"	----
90111*	1" x 3/4"	----
90140	1-1/4" x 3/4"	----
90141	1-1/4" x 1"	----
90114	1-1/2" x 1/2"	----
90115	1-1/2" x 3/4"	----
90116	1-1/2" x 1"	----
90117	1-1/2" x 1-1/4"	----
90118	2" x 1/4"	----
90119	2" x 1/2"	----
90120	2" x 3/4"	----
90121	2" x 1"	----
90122	2" x 1-1/4"	----
90123	2" x 1-1/2"	----
90124	2-1/2" x 2"	----
90125	3" x 1"	----
90126	3" x 1-1/4"	----
90127	3" x 1-1/2"	----
90128	3" x 2"	----
90129	3" x 2-1/2"	----
90133	4" x 1"	----
90130	4" x 2"	----
90131	4" x 3"	----
90132	6" x 4"	----
90150	6" x 2"	----
90152	6" x 3"	----

XXH SWAGE

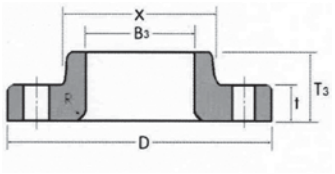
PART #	DESCRIPTION	
92102*	1/2" x 1/4"	----
92107*	3/4" x 1/2"	----
92108*	1" x 1/4"	----
92109*	1" x 3/8"	----
92110*	1" x 1/2"	----
92111*	1" x 3/4"	----
92114	1-1/2" x 1/2"	----
92115	1-1/2" x 3/4"	----
92116	1-1/2" x 1"	----
92119	2" x 1/2"	----
92120	2" x 3/4"	----
92121	2" x 1"	----
92122	2" x 1-1/4"	----
92123	2" x 1-1/2"	----
92128	3" x 2"	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

ASTMA105
ASME SA105
ANSI B16.5

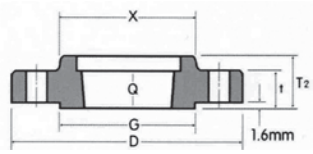
CARBON STEEL FLANGES

• A105 Forged Steel • CLASS 150
(1-1/2 thru 6" available in #316 Stainless Steel add SS to part#)



SLIP-ON 1/16" RAISED FACE CARBON STEEL FLANGE

PART #	SIZE	
107020	1/2"	----
107021	3/4"	----
107022	1"	----
107023	1-1/4"	----
107024	1-1/2"	----
107025	2"	----
107026	2-1/2"	----
107027	3"	----
107029	4"	----
107031	6"	----
107032	8"	----
107033	10"	----
107034	12"	----



THREADED 1/16" RAISED FACE CARBON STEEL FLANGE

PART #	SIZE	
107060	1/2"	----
107061	3/4"	----
107062	1"	----
107063	1-1/4"	----
107064	1-1/2"	----
107065	2"	----
107066	2-1/2"	----
107067	3"	----
107069	4"	----
107071	6"	----
107072	8"	----
107073	10"	----
107074	12"	----

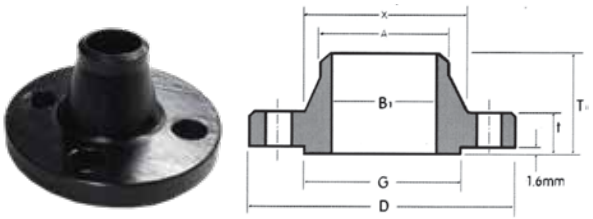
Nominal Pipe Size	Depth of Socket in.	Bolt Circle Diam-eter	Number of Holes	Diam-eter of Holes	Diam-eter of Bolts (inch)	Machine Bolt Length	Stud Bolt Length		Welding Neck	Slip-on and Thread-ed	Blind
						Raised Face	Raised Face	Ring Joint			
	Y								LBS	LBS	LBS
1/2	.382	2.382	4	.618	1/2	2.00	2.252	-	1.146	1.036	1.036
3/4	.441	2.752	4	.618	1/2	2.00	2.50	-	2.028	1.653	1.389
1	.500	3.118	4	.618	1/2	2.252	2.50	3.00	2.425	1.893	2.094
1-1/4	.559	3.50	4	.618	1/2	2.252	2.752	3.252	3.086	3.086	3.086
1-1/2	.618	3.882	4	.618	1/2	2.50	2.752	3.252	3.99	3.109	3.571
2	.689	4.752	4	.752	5/8	2.752	3.252	3.752	6.173	4.982	5.82
2-1/2	.752	5.5	4	.752	5/8	3.00	3.50	4.00	9.436	7.562	8.951
3	.811	6.0	4	.752	5/8	3.00	3.50	4.00	11.42	8.818	11.023
4	.941	7.50	8	.752	5/8	3.00	3.50	4.00	16.138	12.677	16.535
6	1.059	9.50	8	.882	3/4	3.252	4.00	4.50	24.824	17.196	26.455
8	1.252	11.752	8	.882	3/4	3.50	4.252	4.752	39.683	28.66	44.092
10	1.311	14.252	12	1.00	7/8	4.00	4.50	5.00	55.116	37.699	66.139
12	1.559	17	12	1.00	7/8	4.00	4.752	5.252	85.936	61.024	97.003

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

ASTMA105
ASME SA105
ANSI B16.5

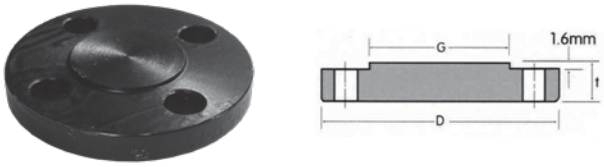
- **A105 Forged Steel**
- **CLASS 150**

(1-1/2 thru 6" available in #316 Stainless Steel add SS to part#)



WELD NECK CARBON STEEL FLANGE

Part #	Size	
107000	1/2"	----
107001	3/4"	----
107002	1"	----
107003	1-1/4"	----
107004	1-1/2"	----
107005	2"	----
107006	2-1/2"	----
107007	3"	----
107009	4"	----
107011	6"	----
107012	8"	----
107013	10"	----
107014	12"	----



BLIND 1/16" RAISED FACE CARBON STEEL FLANGE

PART #	SIZE	
107040	1/2"	----
107041	3/4"	----
107042	1"	----
107043	1-1/4"	----
107044	1-1/2"	----
107045	2"	----
107046	2-1/2"	----
107047	3"	----
107049	4"	----
107051	6"	----
107052	8"	----
107053	10"	----
107054	12"	----

Nominal Pipe Size	Outside Diameter	O.D of Raised Face	Diameter at Base of Hub	Thickness	Welding Neck Socket Welding	Welding Neck	Slip-on Threaded Socket Welding
	D	G	X	T	B1	T1	T2
1/2	3.504	1.382	1.189	.441	.618	1.882	.618
3/4	3.898	1.689	1.50	.50	.819	2.059	.618
1	4.252	2.00	1.941	.559	1.051	2.189	.689
1-1/4	4.606	2.50	2.311	.618	1.382	2.252	.811
1-1/2	5.00	2.882	2.559	.689	1.610	2.441	.882
2	5.984	3.618	3.059	.752	2.071	2.50	1.00
2-1/2	7.008	4.118	3.559	.882	2.469	2.752	1.118
3	7.52	5.00	4.252	.941	3.071	2.752	1.189
4	9.016	6.189	5.311	.941	4.031	3.00	1.311
6	10.984	8.50	7.559	1.00	6.071	3.50	1.559
8	13.504	10.618	9.689	1.118	7.980	4.00	1.752
10	15.984	12.752	12.00	1.189	10.02	4.00	1.941
12	19.016	15.00	14.382	1.252	12.00	4.50	2.189

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

HAMMER UNIONS

FIG 100

Economical and for use in water, oil and gas low pressure applications up to 1,000 PSI CWP. Color coded with Yellow subs and Black nut.

PART#	SIZE	
HAM100-200-SET	2"	----
HAM100-300-SET	3"	----
HAM100-400-SET	4"	----
HAM100-600-SET	6"	----
HAM100-800-SET	8"	----
HAM100-1000-SET	10"	----

FIG 200/ 206

Medium pressure for use in water, oil and gas applications up to 2,000 PSI CWP. Color coded with Grey subs and Blue Nut. The O-Ring in the Male Sub of the FIG206 spec provides greater sealing and protects metal-to-metal seal aganst corrosion.

PART# FIG 200	SIZE	
HAM200-100-SET	1"	----
HAM200-200-SET	2"	----
HAM200-300-SET	3"	----
HAM200-400-SET	4"	----
HAM200-500-SET	5"	----
PART# FIG 206		
HAM206-200-SET	2"	----
HAM206-300-SET	3"	----
HAM206-400-SET	4"	----
HAM206-500-SET	5"	----
HAM206-600-SET	6"	----
HAM206-800-SET	8"	----

CRIMPLOK HAMMER UNIONS

HAMMER UNION

Our hose barb union is constructed of high quality forged steel. The integral hose shank is featured on both the male and female subs. Both time and money is saved by combining the unions with the integral shanks. No more welding hammer unions to combination nipples. Fig100 (black nut) configurations for dewatering applications and fig 200/206 (blue nut) configurations for Frac and Steam applications where a gasket seal is preferred. The union end connection is interchangeable with all major hammer union manufacturers products

PART#	SIZE	
HAM206-400CR-SET	4"	----

PART#	SIZE	
HAM100-400CR-SET	4"	----
HAM100-600CR-SET	6"	----

COPPER FITTINGS

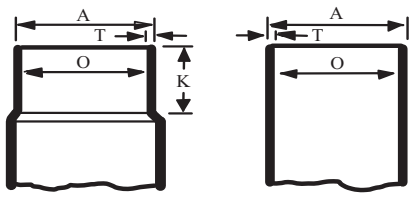
SYMBOL OF JOINT ENDS

C Solder joint fitting end made to receive copper tube diameter
Ftg. Solder joint fitting end made to copper tube diameter
F Internal ANSI Standard Taper Pipe Thread-Female
M External ANSI Standard Taper Pipe Thread-Male
Threaded ends ANSI/ ASME B1. Solder ends ASTM B88

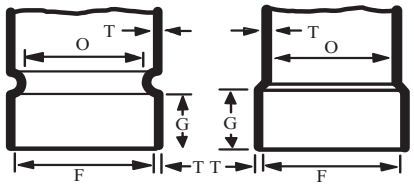
- Temp range 32° to 200°F
- Pressure @100° - 1/8-1 : 500 PSI
  - 1-1/4-2 : 400 PSI
  - 2-1/2 - 3: 300 PSI

NSF - 61 CERTIFIED
ALLOY C12200

THE ABOVE CONFORMS TO ASTM B 88 & ASTM B 306, A 306



MALE (FITTING)



FEMALE (COPPER)

Nominal Size	Joint Ends										Metal Thickness T (in)	Inside Diameter O (in)
	Male End					Female End						
	Outside Diameter (A) in	Average Tolerance (mm)	Actual MIN in	O.D. MAX in		Inside Diameter F (in)	Average Tolerance (mm)	Actual MIN in	O.D. MAX in			
1/8	2/8	0.03	2/8	2/8	3/8	2/8	0.03	2/8	2/8	3/8	0	2/8
1/4	3/8		3/8	3/8	3/8	3/8		3/8	3/8	3/8	0	2/8
3/8	4/8		4/8	4/8	3/8	4/8		4/8	4/8	3/8	0	3/8
1/2	5/8		5/8	5/8	4/8	5/8		5/8	5/8	3/8	0	4/8
5/8	6/8		6/8	6/8	5/8	6/8		6/8	6/8	5/8	0	4/8
3/4	7/8		7/8	7/8	6/8	7/8		7/8	7/8	5/8	0	5/8

WROT SOLDER JOINT
NIPPLES AND FITTINGS

90° ELL C X C

PART#	NOMINAL (ID)	OD	APPROX NET WT.	IND #	
77100	1/8"	1/4"	0.01	W 02003	----
77101	1/4"	3/8"	0.01	W 02009	----
77102	3/8"	1/2"	0.03	W 02017	----
77104	1/2"	5/8"	0.04	W 02022	----
77107	5/8"	3/4"	0.07	W 02028	----
77108	3/4"	7/8"	0.09	W 02034	----
77110	1"	1-1/8"	0.17	W 02047	----
77113	1-1/4"	1-3/8"	0.27	W 02077	----
77114	1-1/2"	1-5/8"	0.41	W 02085	----
77116	2"	2-1/8"	0.73	W 02086	----

WE-500-R 607-R 107-C

90° STREET ELL FTG. X C

77124	1/4"	3/8"	0.01	W 02312	----
77125	3/8"	1/2"	0.03	W 02321	----
77126	1/2"	5/8"	0.05	W 01652	----
77127	5/8"	3/4"	0.07	W 02330	----
77128	3/4"	7/8"	0.12	W 01654	----
77129	1"	1-1/8"	0.22	W 02344	----
77130	1-1/4"	1-3/8"	0.33	W 02384	----
77131	1-1/2"	1-5/8"	0.45	W 02385	----
77132	2"	2-1/8"	0.87	W 02386	----

90° LONG TURN ELL C X C

77139	1/8"	1/4"	0.01	W 02715	----
77140	1/4"	3/8"	0.02	W 02716	----
77141	5/16"		0.03		----
77142	3/8"	1/2"	0.04	W 02717	----
77143	1/2"	5/8"	0.06	W 02722	----
77144	5/8"	3/4"	0.10	W 02728	----
77145	3/4"	7/8"	0.15	W 02734	----

WE-500-L 607-LT 107-L

90° LONG TURN ST. ELL FTG. X C

77154	3/8"	1/2"	0.04	W 02817	----
77155	1/2"	5/8"	0.06	W 02822	----
77156	5/8"	3/4"	0.11		----
77157	3/4"	7/8"	0.15		----
77158	1"	1-1/8"	0.33		----
77159	1-1/4"	1-3/8"	0.46	W 02828	----
77160	1-1/2"	1-5/8"	0.64	W 02834	----

WE-503-L 607-2LT

WROT SOLDER JOINT

NIPPLES AND FITTINGS

45° ELL C X C

PART#	NOMINAL	APPROX NET WT.	IND #	
77161	1/8"	0.01	W 03005	----
77162	1/4"	0.01	W 03012	----
77163	3/8"	0.02	W 03021	----
77164	1/2"	0.04	W 03026	----
77165	5/8"	0.06	W 03030	----
77166	3/4"	0.10	W 03034	----
77167	1"	0.19	W 03044	----
77168	1-1/4"	0.27	W 03050	----
77169	1-1/2"	0.39	W 03055	----
77170	2"	0.75	W 03059	----

WE-504 606 106

STREET 45° FTG. X C

77177	1/4"	0.01	W 03312	----
77178	3/8"	0.02	W 03321	----
77179	1/2"	0.06	W 03326	----
77180	5/8"	0.06	W 03330	----
77181	3/4"	0.10	W 03334	----
77182	1"	0.18	W 03344	----
77183	1-1/4"	0.27	W 03350	----
77184	1-1/2"	0.38	W 03355	----
77185	2"	0.75	W 03359	----

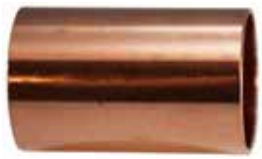
WE-505 606-2

COUPLING (SOCKET) W/ ROLLED UP TUBE STOP C X C

77201	1/8"	0.01	W 01003	----
77202	1/4"	0.01	W 01009	----
77203	3/8"	0.02	W 01017	----
77204	1/2"	0.03	W 01022	----
77205	5/8"	0.04	W 01028	----
77206	3/4"	0.06	W 01034	----
77207	1"	0.10	W 01047	----
77208	1-1/4"	0.15	W 01055	----
77209	1-1/2"	0.22	W 01063	----
77210	2"	0.39	W 01072	----

WC-400 100

COUPLING (SOCKET) LESS TUBE STOP C X C



77219	1/8"	0.01	W 01900	----
77220	1/4"	0.01	W 01901	----
77222	1/2"	0.03	W 01903	----
77223	3/4"	0.06	W 01905	----
77224	1"	0.10	W 01906	----
77225	1-1/4"	0.15	W 01907	----
77226	1-1/2"	0.22	W 01908	----

WC-400NS 601

WROT SOLDER JOINT

NIPPLES AND FITTINGS

COUPLING (SOCKET) W/ DIMPLED TUBE STOP C X C

Part#	Nominal	Approx Net Wt.	Ind #	
77238	1/2"	0.03		----
77240	3/4"	0.06		----
77241	1"	0.10		----
77242	1-1/4"	0.15		----
77244	2"	0.39		----

WC-400S

REDUCER COUPLING W/ STOP C X C

77252	1/4" x 1/8"	0.01	W 01011	----
77254	3/8" x 1/8"			----
77253	3/8" x 1/4"	0.02	W 01019	----
77256	1/2" x 1/4"	0.03	W 01023	----
77255	1/2" x 3/8"	0.03	W 01021	----
77258	5/8" x 1/2"	0.04	W 01025	----
77263	3/4" x 3/8"	0.06	W 01036	----
77262	3/4" x 1/2"	0.06	W 01029	----
77267	1"x1/2"	0.10	W 01049	----
77265	1"x3/4"	0.12	W 01038	----
77270	1 -1/4" x 1/2"	0.14	W 01058	----
77269	1 -1/4" x 3/4"	0.17	W 01056	----
77268	1-1/4" x 1"	0.17	W 01051	----
77273	1 -1/2" x 3/4"	0.25	W 01065	----
77272	1-1/2" x1"	0.24	W 01064	----
77271	1-1/2" x 1-1/4"	0.24	W 01060	----
77277	2" x 1"	0.48	W 01074	----
77276	2 x 1-1/4"	0.46	W 01073	----
77275	2" x 1-1/2"	0.42	W 01069	----
77280	2-1/2"x2"	0.79	W 01075	----

WC-400R 600-R

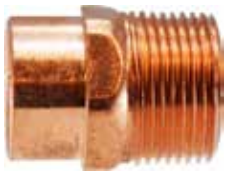
FITTING REDUCER FTG. C X C

77292	3/8" x 1/8"	0.01	W 01314	----
77291	3/8" x 1/4"	0.02	W 01312	----
77294	1/2" x 1/4"	0.03	W 01317	----
77293	1/2" x 3/8"	0.03	W01315	----
77295	5/8" X 1/2"	0.03	W 01320	----
77298	3/4" x 3/8"	0.05	W 01327	----
77297	3/4" x 1/2"	0.06	W 01326	----
77296	3/4" x 5/8"	0.08	W 01325	----
77352	1" x 1/2"	0.10	W 01265	----
77300	1"x3/4"	0.11	W 01337	----
77355	1 -1/4" x 3/4"	0.15	W 01345	----
77354	1-1/4" x1"	0.17	W 01343	----
77360	1 -1/2" x 1/2"	0.21	W 01355	----
77359	1 -1/2" x 3/4"	0.21	W 01353	----
77358	1-1/2"x1"	0.22	W 01351	----
77357	1 -1/2" X 1-1/4"	0.21	W 01350	----
77365	2" x 1/2"	0.44	W 01364	----
77363	2" x 1"	0.40	W 01360	----
77361	2" x 1-1/2"	0.39	W 01358	----

WC-403 600-2

WROT SOLDER JOINT
NIPPLES AND FITTINGS

MALE ADAPTER
C X M



PART#	NOMINAL	APPROX NET WT.	IND #	
77393	1/8"	0.02		----
77394	1/4"	0.04		----
77398	3/8"	0.06	W 01125	----
77401	1/2"	0.08	WB01131	----
77306	3/4"	0.14	WB01146	----
77309	1"	0.24	WB01163	----
77314	1-1/4"	0.41	W 01171	----
77318	1-1/2"	0.50	W 01179	----
77322	2"	0.87	W 01187	----
77395	1/4" x 1/2"	0.09	W 01113	----
77308	3/8" x 1/2"			
77311	1/2" x 3/8"	0.18		----
77303	1/2" x 3/4"	0.16	W 01130	----
77315	3/4" x 1/2"	0.31		----
77307	3/4" x 1"	0.29	W 01145	----
77312	1" x 3/4"	0.18	W 01164	----

• 14 more reducing sizes available

WC-401 604

FTG. MALE ADAPTER
FTG. X M

77331	1/2"	0.09	W 01431	----
77333	3/4"	0.15	W 01446	----
77334	1"	0.15	W 01463	----
77335	1-1/4"	0.41	W 01471	----
77336	1-1/2"	0.41	W 0147X9	----
77337	2"	0.86	W 01487	----

WC-404 604-2

COPPER TUBING

SEE COPPER TUBING FOR REFRIGERATION AND DRINKING WATER ON PAGE 442

Two roads diverged in a wood and I - I took the one less traveled by, and that has made all the difference.

- Robert Frost

WROT SOLDER JOINT
NIPPLES AND FITTINGS

FEMALE ADAPTERS
C X F

PART#	NOMINAL	APPROX NET WT.	IND #	
77343	1/2"	0.10	WB01231	----
77349	3/4"	0.14	WB01246	----
77402	1"	0.24	WB01263	----
77406	1-1/4"	0.43	W 01271	----
77410	1-1/2"	0.58	W 01279	----
77413	2"	0.74	W 01287	----
77341	3/8" x 1/2"	0.10	W 01224	----
77347	1/2" x 1/4"	0.05	W 01233	----
77346	1/2"x3/8"	0,70	W 01232	----
77345	1/2" x 3/4"	0.15	WB01230	----

FEMALE FTG.
ADAPT. FTG. X F

77419	3/8"	0.05	W 01525	----
77420	1/2"	0.11	W 01531	----
77423	3/4"	0.19	W 01546	----
77424	1			----

• More sizes available

WC402 603 WC402R 603R

CAP

77429	1/4"	0.01	W 07004	----
77430	3/8"	0.01	W 07006	----
77431	1/2"	0.02	WB07007	----
77432	5/8"	0.03	W 07008	----
77433	3/4"	0.04	WB07009	----
77434	1"	0.08	WB07011	----
77435	1-1/4"	0.11	W 07012	----
77436	1-1/2"	0.18	W 07013	----
77437	2"	0.30	W 07014	----

WC405 603-2 WC405R 603R

UNIONS C X C

• LF = Lead Free

77453	1/4"	0.11	W 08001	----
77454	3/8"	0.11	W 08002	----
77455LF	1/2"	0.17	W 08003	----
77456LF	3/4"	0.37	W 08004	----
77457LF	1"	0.51	W 08005	----
77606LF	1-1/4"	0.98	W08006	----
77607LF	1-1/2"	1.21	W08007	----
77608LF	2"		W08008	----

WC-415 617

U-TYPE STRAP

77461	1/2"	0.03	A 02529	----
77462	3/4"	0.03	A 02574	----
77463	1"	0.04	A 02614	----
77464	1-1/4"	0.04	A 02650	----

WC-407

WS-1100

WROT SOLDER JOINT

NIPPLES AND FITTINGS

TEE
C X C X C

PART#	NOMINAL 1 X 2 X 3	APPROX NET WT.	IND #	
77467	1/8"	0.02	W 40306	----
77468	1/4"	0.03	W 04000	----
77470	3/8"	0.05	W 04001	----
77473	1/2"	0.08	WB04006	----
77481	5/8"	0.12	W 04017	----
77483	3/4"	0.18	WB04031	----
77490	1"	0.35	WB04048	----
77504	1-1/4"	0.58	W 04068	----
77519	1-1/2"	0.72	W 04084	----
77543	2"	1.35	W 40102	----
77489	3/4"x1/2"x1/2"	0.15	WB04043	----
77488	3/4" x 1/2" x 3/4"	0.19	WB04041	----
77486	3/4" x 3/4" x 1/2"	0.15	WB04033	----
77485	3/4"x3/4"x1"	0.25	W 04065	----
77501	1"x1/2"x1"	0.34	W 04061	----
77499	1"x3/4"x3/4"	0.31	W 04056	----
77498	1"x3/4"x1"	0.38	W 04055	----
77496	1"x1"x1/2"	0.24	WB04051	----
77493	1"x1"x3/4"	0.29	WB04049	----
77518	1 -1 /4"x 1/2" x 1-1/4"	0.58	W 04083	----
77514	1 -1/4" x 3/4" x 1-1/4"	0.63	W 04078	----
77508	1-1/4" x 1-1/4" x 3/4"	0.39	W 04070	----
77507	1-1/4"x1-1/4"x1"	0.47	W 04069	----
77506	1 -1/4" x1 -1/4" x 1-1/2"	0.79	W 40100	----
77523	1 -1/2" x 1-1/2" x 3/4"	0.51	W 04087	----
77522	1-1/2" x 1-1/2" x1"	0.60	W 04086	----
77549	2"x2"x1/2"	0.77	W 40107	----
77548	2" x 2" x 3/4"	0.90	W 40106	----
77547	2"x2"x1"	0.99	W 40105	----

DROP EAR ELBOWS

• Lead Free Bronze

• Lead Free Brass

PART #	SWT X FIP	
44840LF	1/2 x 1/2 Bronze	----
44841LF	1/2 x 1/2 Brass	----
44842LF	3/4 x 1/2 Brass	----
44843LF	3/4 x 3/4 Brass	----

• Lead Free Brass

PART #	SWT X SWT	
44844LF	1/2 x 1/2	----

• Lead Free Bronze

PART #	PEX X FIP	
44845LF	1/2 x 1/2	----

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

PLASTIC FITTINGS

SCH 80 PVC NIPPLES

Machined Schedule 80 PVC nipples comply fully with ASTM D2464, threads conform to ASTM F1498, and the pipe is extruded from PVC 1120-1220 meeting ASTM D1784 and meets ASTM D1785, products standard 21-70

PIPE FITTINGS

- Nylon
- Polyethylene
- Polypropylene

HOSE BARB FITTINGS

- Nylon
- Polyethylene
- Polypropylene

NYLON & POLYPROPYLENE COMPRESSION FITTINGS

Machined Schedule 80 PVC nipples comply fully with ASTM D2464,

POLYPROPYLENE PUSH-IN TUBE FITTINGS AND VALVES

- NSF 61 certified for use with drinking (potable) water
- Max Temperature: 140°F
- Max Pressure: Not Rated

GARDEN HOSE FITTINGS

- Nylon

SCH 40 PVC FITTINGS

- NSF 61 certified for use with drinking (potable) water
- Max Temperature: 140°F
- Max Pressure: Not Rated

Resistant to corrosion, strong and rigid - commonly used in low pressure plumbing applications. ASTM D1784 and D2466.

SCH 80 PVC FITTINGS

PVC Material is Type 1 according to the American Society for Testing Materials (ASTM) D-1784. Fittings conform to ASTM D-2464 & ASTM D-2467. Temperature rating is 140°F. PSI is based on water at 73°F. Derate 50% at 110°F and 78% at 140°F. Not recommended for use in compressed air or gas systems.

SCHEDULE 80 PVC NIPPLES

Machined Schedule 80 PVC nipples comply fully with ASTM D2464, threads conform to ASTM F1498, and the pipe is extruded from PVC 1120-1220 meeting ASTM D1784 and meets ASTM D1785, products standard 21-70

- Dark Grey
- NSF-61 Cert.

1/2" DIAMETER 420 PSI

PART #	LENGTH	
55060	X Close (1-1/8")	----
55061	1-1/2"	----
55062	2"	----
55063	2-1/2"	----
55064	3"	----
55065	3-1/2"	----
55066	4"	----
55067	4-1/2"	----
55068	5"	----
55069	5-1/2"	----
55070	6"	----
55072	8"	----
55074	10"	----
55075	12"	----
55076	12"	----
55240	18"	----
55241	24"	----
55243	36"	----
55244	48"	----
55245	60"	----

3/4" DIAMETER 340 PSI

PART #	LENGTH	
55080	x Close (1-3/8")	----
55081	1-1/2"	----
55082	2"	----
55083	2-1/2"	----
55084	3"	----
55085	3-1/2"	----
55086	4"	----
55087	4-1/2"	----
55088	5"	----
55089	5-1/2"	----
55090	6"	----
55092	8"	----
55093	10"	----
55096	12"	----
55097	18"	----
55098	24"	----
55099	36"	----
55246	48"	----
55247	60"	----

1" DIAMETER 315 PSI

PART #	LENGTH	
55100	X Close (1-1/2")	----
55101	2"	----
55102	2-1/2"	----
55103	3"	----
55104	3-1/2"	----
55105	4"	----
55106	4-1/2"	----
55107	5"	----
55108	5-1/2"	----
55109	6"	----
55111	8"	----
55115	12"	----
55116	18"	----
55117	36"	----
55118	48"	----

1-1/4" DIAMETER 210 PSI

PART #	LENGTH	
55120	X Close (1-5/8")	----
55121	2"	----
55122	2-1/2"	----
55123	3"	----
55124	3-1/2"	----
55125	4"	----
55126	4-1/2"	----
55127	5"	----
55128	5-1/2"	----
55129	6"	----
55131	8"	----
55132	12"	----
55133	18"	----
55134	36"	----
55135	48"	----

PLASTIC PIPE
PLASTIC FITTINGS

1-1/2" DIAMETER 234 PSI

Part #	Length	
55140	X Close (1-5/8")	----
55141	2"	----
55142	2-1/2"	----
55143	3"	----
55144	3-1/2"	----
55145	4"	----
55146	4-1/2"	----
55147	5"	----
55148	5-1/2"	----
55149	6"	----
55150	8"	----
55151	12"	----
55152	18"	----
55153	24"	----
55154	36"	----
55155	48"	----

2" DIAMETER 200 PSI

Part #	Length	
55160	X Close (2")	----
55161	2-1/2"	----
55162	3"	----
55163	3-1/2"	----
55164	4"	----
55165	4-1/2"	----
55166	5"	----
55167	5-1/2"	----
55168	6"	----
55170	8"	----
55174	12"	----
55175	18"	----
55176	24"	----
55177	36"	----
55178	48"	----
55179	60"	----

2-1/2" DIAMETER

Part #	Length	Box/Case	
55180	x Close (2")	25	----
55181	3"	30	----
55182	4"	25	----
55183	5"	25	----
55184	6"	25	----
55185	8"	16	----
55186	10"	16	----
55187	12"	16	----
55190	18"	20	----
55191	24"	10	----
55192	36"	3	----
55193	48"	3	----
55194	60"		----

3" DIAMETER

Part #	Length	Box Qty	
55200	x Close	25	----
55201	3"	20	----
55203	4"	30	----
55205	5"	20	----
55207	6"	20	----
55209	8"	10	----
55211	10"	10	----
55213	12"	10	----
55214	18"		----
55215	24"		----
55216	36"		----
55217	48"		----
55218	60"		----

4" DIAMETER

Part #	Length	Box Qty	
55230	x Close	25	----
55231	4"	18	----
55232	5"	20	----
55233	6"	20	----
55234	8"	10	----
55235	12"	10	----
55236	18"		----
55237	24"		----
55238	36"		----
55239	48"		----
55242	60"		----

If there were no night, we would not appreciate the day, nor could we see the stars and the vastness of the heavens. We must partake of the bitter with the sweet. There is a divine purpose in the adversities we encounter every day. They prepare, they purge, they purify, and thus they bless.

- James E. Faust

PIPE–NYLON POLY

AVAILABLE IN THREE TYPES OF PLASTIC

(W) White Nylon

Made from virgin grade formulated to resist physical stress and abrasion. This material meets F.D.A. requirements of Code of Federal Regulation part 177.1500 and is therefore suitable for food contact surfaces.

Temperature Range: -40°F to 200° F

Working Pressure: 125 PSI maximum.

(B) Black Polyethylene

Made from a high molecular weight linear polyethylene formulated for chemical compatibility and high impact resistance at lower temeratures. Polyethylene is NSF approved for potable water.

Temperature Range: -65°F to 190°F

Working Pressure: 125 PSI maximum.

(P) Polypropylene

Made from the finest polypropylene resins. Polypropylene is used for its resistance to a wide range of chemicals. Working pressures decrease as temperatures increase.

- NSF-approved materials
- FDA-approved materials

Note: Do not use with compressed air or gas.

- 10% Fiberglass fill for extra strength

ELBOW

P

POLYPROPYLENE ELBOWS

Part #	Size	
28702P	3/8"	----
28704P	3/4"	----

W

NYLON ELBOWS

Part #	Size	
28701W	1/4"	----
28703W	1/2"	----
28704W	3/4"	----
28705W	1"	----
28706W	1-1/4"	----
28707W	1-1/2"	----

TEE

P

POLYPROPYLENE TEES

Part #	Size	
28741P	1/4"	----
28742P	3/8"	----
28743P	1/2"	----
28744P	3/4"	----

W

NYLON TEES

Part #	Size	
28741W	1/4"	----
28743W	1/2"	----
28744W	3/4"	----
28745W	1"	----
28746W	1-1/4"	----
28747W	1-1/2"	----

STREET ELBOW

P

POLYPROPYLENE STREET ELBOW

Part #	Size	
28819P	1/8"	----
28723P	1/2"	----
28820P	2"	----
28821P	3"	----

W

NYLON STREET ELBOW

Part #	Size	
28819W	1/8"	----
28720W	1/4"	----
28721W	3/8"	----
28723W	1/2"	----
28724W	3/4"	----
28725W	1"	----
28726W	1-1/4"	----
28727W	1-1/2"	----
28820W	2"	----

HEX HEAD PLUGS

• Cored

B

POLYETHYLENE PLUGS

Part #	Size	
28601B	1/8"	----
28602B	1/4"	----
28603B	3/8"	----
28604B	1/2"	----
28605B	3/4"	----

W

NYLON PLUGS

Part #	Size	
28601W	1/8"	----
28602W	1/4"	----
28603W	3/8"	----
28604W	1/2"	----
28605W	3/4"	----
28606W	1"	----
28607W	1-1/4"	----
28608W	1-1/2"	----
28609W	2 "	----

PLASTIC PIPE
PLASTIC FITTINGS

HEX BUSHING

P

POLYPROPYLENE BUSHINGS

Part #	Size	
28659P	1/4 x 1/8"	----
28660P	3/8 x 1/8"	----
28661P	3/8 x 1/4"	----
28811P	1/2 x 1/8"	----
28663P	1/2 x 1/4"	----
28664P	1/2 x 3/8"	----
28666P	3/4 x 1/4"	----
28668P	3/4 x 1/2"	----
28812P	1 x 3/8"	----
28671P	1 x 1/2"	----
28672P	1 x 3/4"	----
28675P	1-1/4" x 1"	----
28814P	1-1/2" x 1/2"	----
28678P	1-1/2 x 3/4"	----
28680P	1-1/2 x 1-1/4"	----
28816P	2 x 1-1/4"	----

W

NYLON BUSHINGS

Part #	Size	
28659W	1/4 x 1/8"	----
28660W	3/8 x 1/8"	----
28661W	3/8 x 1/4"	----
28811W	1/2 x 1/8"	----
28663W	1/2 x 1/4"	----
28664W	1/2 x 3/8"	----
28665W	3/4 x 1/8"	----
28666W	3/4 x 1/4"	----
28667W	3/4 x 3/8"	----
28668W	3/4 x 1/2"	----
28671W	1 x 1/2"	----
28672W	1 x 3/4"	----
28674W	1-1/4 x 3/4"	----
28675W	1-1/4 x 1"	----
28678W	1-1/2 x 3/4"	----
28679W	1-1/2 x 1"	----
28680W	1-1/2 x 1-1/4"	----
28815W	2" x 1/2"	----
28682W	2 x 3/4"	----
28683W	2 x 1"	----
28685W	2 x 1-1/2"	----

HEX NIPPLES

B

POLYETHYLENE HEX NIPPLES

Part #	Size	
28611B	1/8"	----
28612B	1/4"	----
28613B	3/8"	----
28614B	1/2"	----

P

POLYPROPYLENE HEX NIPPLES

Part #	Size	
28612P	1/4"	----
28613P	3/8"	----
28614P	1/2"	----
28615P	3/4"	----
28619P	2"	----

W

NYLON HEX NIPPLES

Part #	Size	
28611W	1/8"	----
28612W	1/4"	----
28613W	3/8"	----
28614W	1/2"	----
28615W	3/4"	----
28616W	1"	----
28617W	1 1/4 "	----
28618W	1 1/2"	----

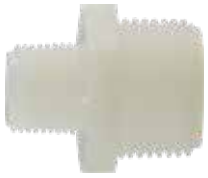
REDUCER NIPPLES

B

POLYETHYLENE HEX NIPPLES

Part #	Size	
28623B	1/2 x 1/4"	----
28624B	1/2 x 3/8"	----
28628B	3/4 x 3/8"	----
28625B	3/4 x 1/2"	----

W



NYLON REDUCING HEX NIPPLES

Part #	Size	
28620W	1/4 x 1/8"	----
28621W	3/8 x 1/8"	----
28622W	3/8 x 1/4"	----
28623W	1/2 x 1/4"	----
28624W	1/2 x 3/8"	----
28628W	3/4 x 3/8"	----
28625W	3/4 x 1/2"	----
28-663W	1-1/4 x 1"	----

P = Polypropylene
W = White Nylon
B = Black Polyethylene

PLASTIC PIPE/ HOSE BARB
PLASTIC FITTINGS

COUPLING

P

POLYPROPYLENE COUPLINGS

Part #	Size	
28761P	1/4"	----
28762P	3/8"	----
28763P	1/2"	----
28764P	3/4"	----

W

NYLON COUPLINGS

Part #	Size	
28761W	1/4"	----
28762W	3/8"	----
28763W	1/2"	----
28764W	3/4"	----
28765W	1"	----
28803W	1-1/4"	----
28767W	1-1/2"	----
28768W	2"	----

Accept the things to which fate binds you, and love the people with whom fate brings you together, but do so with all your heart.

- Marcus Aurelius

PIPE CAP

W

NYLON CAPS

Part #	Size	
28640W	1/4"	----
28641W	3/8"	----
28642W	1/2"	----
28643W	3/4"	----

PLASTIC BULKHEAD FITTINGS

P

20% Glass Filled Polypropylene w/ Santoprene Gasket

Part #	Fpt	Hole	
28693P	1/2"	1-3/8"	----
28694P	3/4"	1-3/8"	----
28695P	1"	1-3/4"	----
28696P	1-1/4"	2"	----
28697P	1-1/2"	3"	----
28698P	2"	3"	----
28699P	3"	4-1/2"	----

P = Polypropylene
W = White Nylon
B = Black Polyethylene

MALE ADAPTERS

B

POLYETHYLENE BARB X MALE PIPE

Part #	Size	
33002B	3/16 x 1/8"	----
33003B	3/16 x 1/4"	----
33004B	1/4 x 1/8"	----
33005B	1/4 x 1/4"	----
33006B	1/4 x 3/8"	----
33007B	1/4 x 1/2"	----
33008B	5/16 x 1/8"	----
33009B	5/16 x 1/4"	----
33012B	3/8 x 1/4"	----
33013B	3/8 x 3/8"	----
33014B	3/8 x 1/2"	----
33026B	3/8 x 3/4"	----
33015B	1/2 x 1/4"	----
33016B	1/2 x 3/8"	----
33017B	1/2 x 1/2"	----
33018B	1/2 x 3/4"	----
33019B	5/8 x 3/8"	----
33020B	5/8 x 1/2"	----
33021B	5/8 x 3/4"	----
33022B	3/4 x 1/2"	----
33023B	3/4 x 3/4"	----
33024B	1 x 3/4"	----

P

POLYPROPYLENE HOSE BARB
Hose ID x MIP

Part #	Size	
33012P	3/8 x 1/4"	----
33013P	3/8 x 3/8"	----
33014P	3/8 x 1/2"	----
33015P	1/2 x 1/4"	----
33016P	1/2 x 3/8"	----
33017P	1/2 x 1/2"	----
33018P	1/2 x 3/4"	----
33303P	1/2" x 1"	----
33020P	5/8 x 1/2"	----
33022P	3/4 x 1/2"	----
33023P	3/4 x 3/4"	----
33000P	3/4 x 1"	----
33024P	1 x 3/4"	----
33025P	1 x 1"	----
33323P	3" x 3"	----

PLASTIC BARBS
PLASTIC FITTINGS

W

NYLON BARB MALE ADAPTERS
Hose ID x MIP

Part #	Size	
33002W	3/16 x 1/8"	----
33003W	3/16 x 1/4"	----
33004W	1/4 x 1/8"	----
33005W	1/4 x 1/4"	----
33006W	1/4 x 3/8"	----
33007W	1/4 x 1/2"	----
33380W	1/4 x 3/4"	----
33008W	5/16 x 1/8"	----
33009W	5/16 x 1/4"	----
33010W	5/16 x 3/8"	----
33011W	3/8 X 1/8"	----
33012W	3/8 x 1/4"	----
33013W	3/8 x 3/8"	----
33014W	3/8 x 1/2"	----
33026W	3/8 x 3/4"	----
33015W	1/2 x 1/4"	----
33016W	1/2 x 3/8"	----
33017W	1/2 x 1/2"	----
33018W	1/2 x 3/4"	----
33303W	1/2" x 1"	----
33019W	5/8 x 3/8"	----
33020W	5/8 x 1/2"	----
33021W	5/8 x 3/4"	----
33306W	3/4" x 3/8"	----
33022W	3/4 x 1/2"	----
33023W	3/4 x 3/4"	----
33000W	3/4 x 1"	----
33318W	3/4" x 1-1/4"	----
33319W	3/4" x 1-1/2"	----
33307W	1" x 1/2"	----
33024W	1 x 3/4"	----
33025W	1 x 1"	----
33029W	1 x 1-1/4"	----
33320W	1" x 1-1/2"	----
33027W	1-1/8" x 1"	
33349W	1-1/4" x 3/4"	----
33028W	1-1/4 x 1"	----
33030W	1-1/4 x 1-1/4"	----
33032W	1-1/4 x 1-1/2"	----
33321W	1-1/2" x 1-1/4"	----
33033W	1-1/2 x 1-1/2"	----

ELBOWS

B

POLYETHYLENE ELBOWS
Hose ID x MALE PIPE

Part #	Size	
33308B	3/16 x 1/8	----
33038B	1/4 x 1/8	----
33039B	1/4 x 1/4	----
33309B	1/4 x 3/8	----
33046B	3/8 x 1/8	----
33041B	3/8 x 1/4	----
33042B	3/8 x 3/8	----
33047B	3/8 x 1/2	----
33043B	1/2 x 3/8	----
33311B	1/2 x 1/2	----
33385B	1/2 x 3/4	----
33044B	5/8 x 3/8	----
33045B	5/8 x 1/2	----
33312B	5/8 x 3/4	----
33313B	3/4 x 1/2	----
33314B	3/4 x 3/4	----

P

POLYPROPYLENE BARB ELBOW

Part #	Size	
33048P	1/2 x 1/4	----
33311P	1/2 x 1/2	----
33385P	1/2 x 3/4	----
33313P	3/4 x 1/2	----
33314P	3/4 x 3/4	----
33316P	1 x 1	----
33334P	1-1/4 x 1	----
33461P	1-1/4 x 1-1/4	----
33463P	1-1/2 x 1-1/2	----

W

NYLON BARB X MIP ELBOWS

Part #	Size	
33381W	3/16 x 1/4	----
33038W	1/4 x 1/8	----
33039W	1/4 x 1/4	----
33309W	1/4 x 3/8	----
33351W	1/4 x 1/2	----
33040W	5/16 x 1/4	----
33310W	5/16 x 3/8	----
33046W	3/8 x 1/8	----
33041W	3/8 x 1/4	----
33042W	3/8 x 3/8	----
33047W	3/8 x 1/2	----
33384W	3/8 x 3/4	----
33048W	1/2 x 1/4	----
33043W	1/2 x 3/8	----
33311W	1/2 x 1/2	----
33385W	1/2 x 3/4	----
33044W	5/8 x 3/8	----
33045W	5/8 x 1/2	----
33312W	5/8 x 3/4	----
33329W	5/8" x 1"	----
33313W	3/4 x 1/2	----
33314W	3/4 x 3/4	----
33315W	3/4 x 1	----
33386W	1x3/4	----
33316W	1 x 1	----
33460W	1 x 1-1/4	----
33050W	1-1/8" x 1"	
33461W	1-1/4 x 1-1/4	----
33462W	1-1/2 x 1-1/4	----
33463W	1-1/2 x 1-1/2	----
33464W	2 x 2	----

P = Polypropylene
W = White Nylon
B = Black Polyethylene

HOSE BARB X FE ADAPTERS

B

POLYETHYLENE ADAPTER
Hose ID x FIP

Part #	Size	
33053B	1/4 x 1/4"	----

W

NYLON ADAPTER
Barb x FIP

Part #	Size	
33052W	1/4 x 1/8"	----
33053W	1/4 x 1/4"	----
33058W	3/8 x 1/4"	----
33059W	3/8 x 3/8"	----
33060W	3/8 x 1/2"	----
33442W	3/8 x 3/4"	----
33066W	1/2 x 1/4"	----
33062P	1/2 x 3/8"	----
33061W	1/2 x 1/2"	----
33067W	1/2 x 3/4"	----
33068W	5/8 x 1/2"	----
33063W	5/8 x 3/4"	----
33064W	3/4 x 1/2"	----

HOSE BARB X FE ELBOW

P

W

NYLON ELBOW
Hose ID x Female Pipe

Part #	Size	
33342W	3/8 x 1/2"	----
33402W	1/2 x 3/8"	----
33403W	1/2 x 3/4"	----
33343P	1/2 x 1/2"	----
33343W	1/2 x 1/2"	----
33344P	5/8 x 3/4"	----
33344W	5/8 x 3/4"	----
33470W	5/8 x 1/2"	----
33345W	3/4 x 1/2"	----
33471W	3/4 x 3/4"	----

UNION ELBOWS

B

POLYETHYLENE ELBOW

Part #	Size	
33390B	1/4	----
33391B	3/8	----
33394B	1/2	----
33395B	5/8	----
33396B	3/4	----

W

NYLON ELBOW

Part #	Size	
33390W	1/4	----
33391W	3/8	----
33394W	1/2	----
33395W	5/8	----
33396W	3/4	----
33397W	1	----
33398W	1-1/4	----
33399W	1-1/2	----

SPLICERS

B

POLYETHYLENE SPLICER

Part #	Size	
33091B	1/8	----
33092B	3/16	----
33093B	1/4	----
33095B	3/8	----
33096B	1/2	----
33097B	5/8	----

POLYPROPYLENE SPLICER

Part #	Size	
33095P	3/8	----
33096P	1/2	----
33098P	3/4	----
33099P	1	----

SPLICERS

W

NYLON SPLICES

Part #	Size	
33091W	1/8	----
33092W	3/16	----
33093W	1/4	----
33094W	5/16	----
33095W	3/8	----
33096W	1/2	----
33097W	5/8	----
33098W	3/4	----
33099W	1	----
33480W	1-1/4	----
33481W	1-1/2	----

REDUCING SPLICERS

B

POLYETHYLENE SPLICES

Part #	Size	
33406B	3/8 x 1/4	----
33407B	1/2 x 1/4	----
33408B	1/2 x 3/8	----
33410B	5/8 x 1/2	----

W

NYLON SPLICES

Part #	Size	
33079W	1/4 x 1/8	----
33347W	1/4 x 3/16	----
33406W	3/8 x 1/4	----
33348W	3/8 x 5/16	----
33407W	1/2 x 1/4	----
33408W	1/2 x 3/8	----
33409W	5/8 x 3/8	----
33410W	5/8 x 1/2	----
33089W	3/4 x 1/2	----

PLASTIC BARBS
PLASTIC FITTINGS

TEES BARBED ON ALL SIDES

B

POLYETHYLENE TEE

Part #	Size	
33415B	1/8	----
33418B*	3/16	----
33420B	3/16	----
33422B	1/4	----
33426B	5/16	----
33429B	3/8	----
33433B	1/2	----
33436B	5/8	----
33437B	3/4	----
33438B	1	----

P

POLYPROPYLENE TEE

Part #	Size	
33429P	3/8	----
33440P	1-1/2	----

ALL HOSE BARB "Y"

P

POLYPROPYLENE WYE

Part #	Size	
33300P*	1/4"	----
33301P*	3/8"	----
33302P*	1/2"	----

**Natural Polypro*

W

NYLON WYE

Part #	Size	
33301W	3/8"	----

W

NYLON TEE

Part #	Size	
33415W	1/8	----
33417W	5/32	----
33420W	3/16	----
33422W	1/4	----
33426W	5/16	----
33429W	3/8	----
33433W	1/2	----
33436W	5/8	----
33437W	3/4	----
33438W	1	----
33439W	1-1/4	----
33440W	1-1/2	----

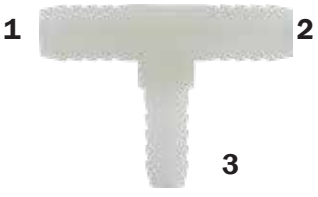
REDUCING TEES

B

POLYETHYLENE TEE

Part #	Size	
33423B	3/8 x 3/8 x 1/4	----
33430B	1/2 x 1/2 x 3/8	----
33432B	3/8 x 3/8 x 1/2	----
33434B	1/2 x 1/2 x 5/8	----
33435B	3/4 x 3/4 x 1/2	----

W



NYLON TEE

Part #	Size	
33430W	1/2 x 1/2 x 3/8	----
33431W	5/8 x 5/8 x 3/8	----
33432W	3/8 x 3/8 x 1/2	----
33435W	3/4 x 3/4 x 1/2	----

MALE BRANCH TEE

W

NYLON BRANCH TEE

Part #	Size	
33448W	1/4 x 1/4	----
33450W	3/8 x 1/4	----
33451W	3/8 x 3/8	----
33453W	1/2 x 1/4	----
33454W	1/2 x 3/8	----
33455W	1/2 x 1/2	----
33458W	5/8" x 3/4"	----
33456W	3/4 x 3/4	----

Tomorrow is the most important thing in life. Comes into us at midnight very clean. It's perfect when it arrives and it puts itself in our hands. It hopes we've learned something from yesterday.

- John Wayne

GARDEN HOSE

PLASTIC GARDEN HOSE FITTINGS

FITTINGS WITH GARDEN HOSE THREAD

GARDEN HOSE CAP

- Washer not included

- White Nylon

P

Part #	Size	
30103P	3/4"	----

GARDEN HOSE THREAD ADAPTERS

BARB X MALE GARDEN HOSE

- White Nylon

Part #	Size	
31038	1/4"	----
31039	3/8"	----
31040	1/2"	----
31041	5/8"	----
31042	3/4"	----

GARDEN HOSE ADAPTER INSERTS

- for assembly with 31-022

- White Nylon

Part #	Size	
31030	1/4"	----
31031	3/8"	----
31032	1/2"	----
31033	5/8"	----
31034	3/4"	----
31035	1/2" MPT	----

GARDEN HOSE NUT

- White Nylon

Part #	Size	
31022	3/4"	----
31023	3/4" FIP	----

MALE GARDEN HOSE X FEMALE PIPE

- White Nylon

Part #	Size	
31067	MGH X 1/4	----
31068	MGH X 1/2 FIP	----
31069	MGH X 3/4	----

FEMALE GARDEN HOSE X MALE PIPE

- White Nylon

Part #	Size	
31093	FGH X 3/4 MPT	----
31095	FGH X 3/4 MGH	----

FEMALE GARDEN HOSE X FEMALE PIPE

- White Nylon

Part #	Size	
31096	FGH X 1/2 FIP	----
31097	FGH X 3/4 FIP	----

MALE GARDEN HOSE X MALE PIPE

- White Nylon

Part #	Size	
31055	GHT X 3/8 MPT	----
31058	GHT X 1/2 MPT	----
31063	GHT X 3/4 MPT	----
31064	GHT X 1 MPT	----

PLASTIC COMPRESSION
PLASTIC FITTINGS

PLASTIC COMPRESSION FITTINGS

Corrosion resistant thermoresins designed to resist vibration, provide good electrical insulation, low flow resistance, and resistance to scale buildup.

The letter on the end of part no. denotes the type.
N = Nylon
P = Polypropylene
Standard nut and sleeves will be provided (sleeve is integral part of nut). Other sizes available upon request.

FDA and NSF Listed

UNION & REDUCING UNION CONNECTORS

P

Part #	Size	
17064P	1/4"	----
17066P	3/8"	----
17079P	3/8" x 1/4"	----
17068P	1/2"	----

• Nylon

Part #	Size	
17064N	1/4"	----
17065N	5/16"	----
17078N	5/16" x 1/4"	----
17066N	3/8"	----
17079N	3/8" x 1/4"	----
17068N	1/2"	----

BULKHEAD UNIONS

• Nylon

Part #	Size	
17088N	1/4"	----
17090N	3/8"	----
17091N	1/2"	----

UNION TEES

• Nylon

Part #	Size	
17103N	1/4"	----
17105N	3/8"	----
17106N	1/2"	----

UNION ELBOWS

P

Part #	Size	
17124P	1/4"	----
17126P	3/8"	----
17127P	1/2"	----

• Nylon

PART #	SIZE	
17124N	1/4"	----
17126N	3/8"	----

FEMALE CONNECTORS

P

Part #	Size	
17145P	1/4 x 1/8	----
17153P	3/8 x 1/4	----
17154P	3/8 x 3/8	----
17158P	1/2 x 3/8	----

• Nylon

Part #	Size	
17146N	1/4 x 1/4	----
17153N	3/8 x 1/4	----

MALE CONNECTORS

P

Part #	Size	
17179P	1/4 x 1/8	----
17180P	1/4 x 1/4	----
17188P	3/8 x 1/4	----
17189P	3/8 x 3/8	----
17190P	3/8 x 1/2	----
17193P	1/2 x 1/4	----
17194P	1/2 x 3/8	----

• Nylon

Part #	Size	
17176N	1/8 x 1/8"	
17179N	1/4 x 1/8	----
17180N	1/4 x 1/4	----
17188N	3/8 x 1/4	----
17189N	3/8 x 3/8	----
17190N	3/8 x 1/2	----
17193N	1/2 x 1/4	----
17194N	1/2 x 3/8	----

MALE ELBOWS

P

Part #	Size	
17225P	1/4 x 1/4	----
17233P	3/8 x 1/4	----
17234P	3/8 x 3/8	----
17237P	1/2 x 3/8	----
17238P	1/2 x 1/2	----

• Nylon

Part #	Size	
17224N	1/4 x 1/8	----
17225N	1/4 x 1/4	----
17233N	3/8 x 1/4	----
17234N	3/8 x 3/8	----
17237N	1/2 x 3/8	----
17238N	1/2 x 1/2	----

PLASTIC PUSH-IN TUBE FITTINGS

Manufactured from safe, non-toxic materials meeting the requirements of the US FDA, WRAS, ANSI/NSF-51, 61, and SK Zert. Our products are widely used in water purification, food/beverage and pneumatic systems.

- Function & Quality : provides quick and convenient assembly - saving time & expense. Our ISO9001, 14001 registered quality system ensures our customers a superior level of product quality. Defects are easily detectable and maintenance is easy with its easy dismantling for access.
- Collet Design : Unique oval collet design is superior and more practical.
- Applications : Beyond water and food use, fittings can be used with air, gases, vacuum, & liquids. And all connections can be assembled & disassembled repeatedly.
- Material : Grey Acetal Copolymer, also known as POM. Highly durable and resistant to fatigue and creep. It has high resistance to a wide range of organic & inorganic chemicals and detergents. Not recommended for use with strong acids or repeated exposure to strong oxidizers. (polypropylene may be subbed)

SIZE / Temperature	Small Size						Large Size				
	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	7/8"			28mm
	4mm	5mm	6mm	8mm	10mm	12mm	15mm	16mm	18mm	22mm	
1°C (34°F)	16bar (230PSI)				11bar (170PSI)		11bar (170PSI)				
20°C (68°F)	16bar (230PSI)				11bar (170PSI)		11bar (170PSI)				
65°C (150°F)	10bar (150PSI)				7bar (100PSI)		7bar (100PSI)				

- Fittings are not recommended for use with liquids other than water and food or beverage products.
- Do not use pipe dope or other liquid thread sealers. Use only Teflon tape to seal threaded connections.
- After assembling a tube connection, tug with moderate force to check for proper gripping of the tube.
- Before disassembling tube connections, always verify that pressure has been removed from the system.

UNION CONNECTOR

Part #	Tube OD	
20018P	5/32"	----
20702P	3/16"	----
20019P	1/4"	----
20020P	3/8"	----
20021P	1/2"	----

REDUCING UNION

Part #	Tube OD	Tube OD	
20750P	1/4"	3/16"	----
20754P	3/8"	3/16"	----
20755P	3/8"	1/4"	----
20756P	3/8"	5/16"	----
20758P	1/2"	3/8"	----

BULKHEAD UNION

Part #	Tube OD	
20127P	1/4"	----
20128P	3/8"	----

UNION TEE

Part #	Tube OD	
20028P	1/4"	----
20029P	3/8"	----
20030P	1/2"	----

REDUCING BRANCH TEE

Part #	Tube OD 1	Tube OD 2	
20725P	3/8"	1/4"	----
20724P	1/2"	3/8"	----

UNION ELBOW

Part #	Tube OD	
20152P	1/4"	----
20153P	3/8"	----
20154P	1/2"	----

REDUCING ELBOW

Part #	Tube OD	Tube OD	
20733P	3/8"	3/16"	----
20734P	3/8"	1/4"	----
20736P	1/2"	3/8"	----

PLASTIC PUSH-IN
PLASTIC FITTINGS

FEMALE CONNECTOR

Female Pipe

PART #	TUBE OD	THREAD NPTF	
20993P	1/4"	1/8"	----
20035P	1/4"	1/4"	----
20944P	3/8"	1/8"	----
20036P	3/8"	1/4"	----

Female Flare

PART #	TUBE OD	FE FLARE	
20936P	1/4"	1/4"	----
20937P	3/8"	1/4"	----
20938P	3/8"	3/8"	----

Female UNS Cone Type

PART #	TUBE OD	UNS	
20939P	1/4"	7/16"	----
20940P	3/8"	7/16"	----

Female Comp

PART #	TUBE OD	FE COMP	
20941P	3/8"	9/16-24"	----

20-152P + 20-525P = 20-964P

MALE CONNECTOR

Male Pipe

PART #	TUBE OD	THREAD NPTF	
20050P	5/32"	1/8"	----
20054P	1/4"	1/8"	----
20055P	1/4"	1/4"	----
20056P	1/4"	3/8"	----
20057P	3/8"	1/8"	----
20058P	3/8"	1/4"	----
20059P	3/8"	3/8"	----
20062P	3/8"	1/2"	----
20061P	1/2"	3/8"	----
20063P	1/2"	1/2"	----

Male BSP

AMCB

PART #	TUBE OD	BSP	
20958P	3/8"	3/8"	----

AMCF

PART #	TUBE OD	MALE FLARE	
20960P	3/8"	1/4"	----
20961P	3/8"	1/2"	----

STEM ADAPTER

Part #	stem OD	Thread NPTF	
20524P	1/4"	1/8"	----
20525P	1/4"	1/4"	----
20528P	3/8"	1/4"	----
20529P	3/8"	3/8"	----

REDUCER

PART #	TUBE OD 1	STEM OD 2	
20512P	3/8"	1/4"	----
20763P	3/8"	5/16"	----
20514P	1/2"	3/8"	----

TUBE BARB CONNECTOR

ATBC

PART #	STEM OD	HOSE BARB ID	
20964P	1/4"	1/4"	----
20965P	3/8"	1/4"	----
20966P	3/8"	3/8"	----
20967P	3/8"	1/2"	----
20968P	1/2"	3/8"	----
20969P	1/2"	1/2"	----

FIXED ELBOW

Part #	Tube OD	Thread NPTF	
20068P	1/4"	1/8"	----
20069P	1/4"	1/4"	----
20070P	1/4"	3/8"	----
20072P	3/8"	1/4"	----
20073P	3/8"	3/8"	----

SWIVEL ELBOW

Union Elbow + Stem Adapter

AMES

PART #	STEM OD	TUBE ID	
20973P	1/4"	1/4"	----
20974P	3/8"	3/8"	----

PLASTIC PUSH-IN
PLASTIC FITTINGS

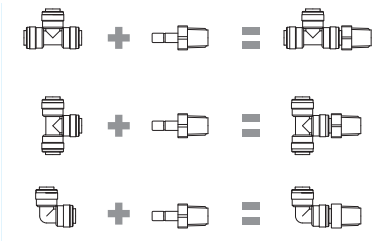
PLUG-IN ELBOW

PART #	TUBE OD	STEM	
20740P	5/32"	5/32"	----
20742P	1/4"	1/4"	----
20745P	3/8"	1/4"	----
20747P	3/8"	3/8"	----
20748P	1/2"	1/2"	----

TUBE ELBOW BARB CONNECTOR

PART #	STEM OD	HB ID	
20970P	1/4"	1/4"	----
20971P	3/8"	1/4"	----
20972P	3/8"	3/8"	----

ADAPTABILITY
- For maximum flexibility, fittings may be combined to provide wider functions.
- Unlike some competitors products, separation and reuse is easy.



2-WAY DIVIDER

PART #	TUBE OD	LIST PRICE
20775P	1/4"	----
20776P	5/16"	----
20777P	3/8"	----

PLUG

PART #	TUBE OD	
20876P	5/32"	----
20878P	1/4"	----
20880P	3/8"	----
20881P	1/2"	----

TUBE END STOP

PART #	TUBE OD	
20925P	1/4"	----
20927P	3/8"	----

PART #	TUBE OD	FGH	
20950P	1/4"	3/4"	----
20951P	3/8"	3/4"	----

PART #	TUBE OD	BSP	
20953P	1/4"	1/2"	----
20954P	1/4"	3/4"	----
20955P	3/8"	3/4"	----
20956P	5/8"	3/4"	----

PL X PL

PART #	TUBE OD	
20900P	1/4"	----
20901P	3/8"	----

PL X MALE NPTF

PART #	TUBE OD	MALE THREAD NPTF	
20904P	1/4"	1/4"	----
20905P	3/8"	3/8"	----

PLASTIC PUSH-IN
PLASTIC FITTINGS

CHECK VALVE

PART #	TUBE OD	
20778P	1/4"	----
20779P	3/8"	----

STOP VALVES

CONNECTOR: Flows in both directions by connection.

DISCONNECTOR: Stop flows in both directions by with separation where pulling to the open position.

ASTVBU

PART #	TUBE OD	
20910P	1/4"	----

LOCKING CLIP

ALC

PART #		
20975P	1/4"	----
20976P	3/8"	----
20977P	1/2"	----

FLOW BEND CLIP

AFBC

PART #		
20980P	1/4"	----
20981P	3/8"	----

SPANNER

PART #	SIZES	
20983P	3/16,1/4,5/16 3/8,1/2	----

STOP & FAUCET ADAPTER VALVES

AV range of Stop & Faucet Valve Adaptor valves and Slip Tee Valves are manufactured in white Polypropylene, reinforced plastic with EPDM O-rings which provides value- added advantages in the installation of water supply line mainly.

AV range of Stop & Faucet Valve Adaptors and Slip Tee Valves are designed for use in drinking water systems, Refrigerators, Ice-Makers, Humidifiers and Water filtration applications, etc.,. Our valves offer greater efficiency than any traditional valves.
AV valves have been approved in NSF/ANSI 61 & 372.
AV range is 1/4" Turn valves.

STOP VALVE ADAPTER

3/8 MALE COMP X
3/8 FEMALE COMP

PART #	TUBE OD	
20985P	1/4"	----
20986P	3/8"	----

SLIPTEE VALVE

PART #	RUN X RUN	BRANCH	
20988P	5/8"	1/4"	----
20989P	5/8"	3/8"	----
20990P	7/8"	1/4"	----

A man has to learn that he cannot command things, but that he can command himself; that he cannot coerce the wills of others, but that he can mold and master his own will: and things serve him who serves Truth; people seek guidance of him who is master of himself.

- James Allen

HOSE ACCESSORIES

CAM AND GROOVE

ALUMINIUM

POLYPROPLYENE

STAINLESS STEEL

BRASS

COMBINATION HOSE NIPPLES

FIRE HOSE FITTINGS

UNIVERSAL/ GROUND JOINT COUPLINGS

CAM AND GROOVE

MALE ADAPTER X FEMALE NPT
TYPE A

CGA
6191X

PART#	SIZE	
CGA-050-A1	1/2"	----
CGA-075-A1	3/4"	----
CGA-100-A1	1"	----
CGA-125-A1	1-1/4"	----
CGA-150-A1	1-1/2"	----
*CGA-200-A1	2"	----
CGA-250-A1	2-1/2"	----
*CGA-300-A1	3"	----
*CGA-400-A1	4"	----
CGA-500-A1	5″	----
CGA-600-A1	6″	----
CGA-800-A1	8″	----
CGA-1000-A	10"	----

FEMALE COUPLER X HOSE SHANK
TYPE C

CGC
6193X

PART#	SIZE	
CGC-050-A1	1/2"	----
CGC-075-A1	3/4"	----
CGC-100-A1	1"	----
CGC-125-A1	1-1/4"	----
CGC-150-A1	1-1/2"	----
*CGC-200-A1	2"	----
CGC-250-A1	2-1/2"	----
*CGC-300-A1	3"	----
*CGC-400-A1	4"	----
CGC-500-A1	5″	----
CGC-600-A1	6"	----
CGC-800-A1	8"	----
CGC-1000-A	10"	----

FEMALE COUPLER X MALE NPT
TYPE B

CGB
6192X

PART#	SIZE	
CGB-050-A1	1/2"	----
CGB-075-A1	3/4"	----
CGB-100-A1	1"	----
CGB-125-A1	1-1/4"	----
CGB-150-A1	1-1/2"	----
CGB-200-A1	2"	----
CGB-250-A1	2-1/2"	----
CGB-300-A1	3"	----
*CGB-400-A1	4"	----
CGB-500-A1	5″	----
CGB-600-A1	6″	----
CGB-800-A1	8"	----
CGB-1000-A	10"	----

FEMALE COUPLER X FEMALE NPT
TYPE D

CGD
6194X

PART#	SIZE	
CGD-050-A1	1/2"	----
CGD-075-A1	3/4"	----
CGD-100-A1	1"	----
CGD-125-A1	1-1/4"	----
CGD-150-A1	1-1/2"	----
*CGD-200-A1	2"	----
CGD-250-A1	2-1/2"	----
*CGD-300-A1	3"	----
*CGD-400-A1	4"	----
CGD-500-A1	5″	----
CGD-600-A1	6″	----
CGD-800-A1	8"	----
CGD-1000-A	10"	----

ALUMINUM CAM AND GROOVE
HOSE ACCESSORIES

MALE ADAPTER X HOSE SHANK
TYPE E

CGE
61-95X

PART#	SIZE	
CGE-050-A1	1/2"	----
CGE-075-A1	3/4"	----
CGE-100-A1	1"	----
CGE-125-A1	1-1/4"	----
CGE-150-A1	1-1/2"	----
*CGE-200-A1	2"	----
CGE-250-A1	2-1/2"	----
*CGE-300-A1	3"	----
*CGE-400-A1	4"	----
CGE-500-A1	5″	----
CGE-600-A1	6″	----
CGE-800-A1	8"	----
CGE-1000-A	10"	----

MALE ADAPTER X MALE NPT
TYPE F

CGF
61-96X

PART#	SIZE	
CGF-050-A1	1/2"	----
CGF-075-A1	3/4"	----
CGF-100-A1	1"	----
CGF-125-A1	1-1/4"	----
CGF-150-A1	1-1/2"	----
*CGF-200-A1	2"	----
CGF-250-A1	2-1/2"	----
CGF-300-A1	3"	----
*CGF-400-A1	4"	----
CGF-500-A1	5″	----
CGF-600-A1	6″	----
CGF-800-A1	8″	----
CGF-1000-A	10"	----

DUST CAP
TYPE DC

CDC
61-97X

PART#	SIZE	
CDC-050-A1	1/2"	----
CDC-075-A1	3/4"	----
CDC-100-A1	1"	----
CDC-125-A1	1-1/4"	----
CDC-150-A1	1-1/2"	----
*CDC-200-A1	2"	----
CDC-250-A1	2-1/2"	----
*CDC-300-A1	3"	----
*CDC-400-A1	4"	----
CDC-500-A1	5″	----
CDC-600-A1	6″	----
CDC-800-A1	8″	----
CDC-1000-A	10"	----

DUST PLUG
TYPE DP

CDP
61-98X

PART#	SIZE	
CDP-050-A1	1/2"	----
CDP-075-A1	3/4"	----
CDP-100-A1	1"	----
CDP-125-A1	1-1/4"	----
CDP-150-A1	1-1/2"	----
CDP-200-A1	2"	----
CDP-250-A1	2-1/2"	----
CDP-300-A1	3"	----
CDP-400-A1	4"	----
CDP-500-A1	5″	----
CDP-600-A1	6″	----
CDP-800-A1	8"	----
CDP-1000-A	10"	----

ALUMINUM (AL) SPOOL & PART A

SEE PAGES 332 FOR JUMP SIZES IN ALUMINUM

MALE ADAPTER X MALE ADAPTER
ALUMINUM
SPOOL ADAPTER

SA-XXX-A
61910

PART#	SIZE	PART#	
SA-100-A	1″	61872	----
SA-150-A	1-1/2″	*61873	----
SA-200-A	2″	*61874	----
SA-2030-A	2″ x 3″	*61875	----
SA-250-A	2-1/2″	61876	----
SA-300-A	3″	*61877	----
SA-3040-A	3″ x 4″	*61878	----
SA-400-A	4″	*61879	----

REDUCER ADAPTER FEMALE NPT ALUMINUM

CGA-XXX-A

MALE ADAPTER X FEMALE PIPE

PART#	SIZE	PART#	
CGA-1520-A	1-1/2" x 2"		----
CGA-2015-A	2" x 1-1/2"		----
CGA-2030-A	2" x 3"	*61-851	----
CGA-3040-A	3" x 4"	*61-853	----
CGA-4030-A	4" x 3"	*61-854	----
*CGA-6040-A	6" x 4"		----

ALUMINUM SWIVEL

PART#	SIZE	
CGASV-300-A	3"	----
CGASV-400-A	4"	----

REDUCER COUPLER M NPT
PART B

CGB-XXX-A

FEMALE COUPLER X MALE PIPE

PART#	SIZE	PART#	
CGA-3020-A	3" x 2"	61859	----
CGA-3040-A	3" x 4"	*61860	----
CGA-4030-A	4" x 3"	*61861	----

ALUMINUM 90°
PART C

PART#	SIZE	
CGC-1590-A	1-1/2"	----
CGC-2090-A	2"	----

REDUCER COUPLER SHANK
PART C

CGC

PART#	SIZE	
CGC-2015-A	2" x 1-1/2"	----
CGC-3020-A	3" x 2"	----
CGC-3025-A	3" x 2-1/2"	----
CGC-4030-A	4" x 3"	----

REDUCER COUPLER ADAPTER PART D

DA-XXX-A

FEMALE COUPLER X MALE ADAPTER

PART#	SIZE	PART#	
DA-1510-A	1-1/2″ x 1″	619001	----
DA-1520-A	1-1/2″ x 2″	*619002	----
DA-2015-A	2″ x 1-1/2″	*619003	----
DA-2030-A	2" x 3"	*619004	----
DA-2040-A	2" x 4"	619005	----
DA-3015-A	3″ x 1-1/2″	619006	----
DA-3020-A	3″ x 2″	*619007	----
DA-3040-A	3″ x 4″	*619008	----
DA-4020-A	4" x 2"	*619009	----
DA-4030-A	4″ x 3″	*619010	----
DA-4060-A	4" x 6"	*619011	----
DA-6040-A	6" x 4"	*619012	----

REDUCER COUPLER FEMALE NPT PART D

CGD

FEMALE COUPLER X FEMALE PIPE

PART#	SIZE	PART#	
CGD-1510-A	1-1/2" x 1"	61865	----
CGD-2015-A	2" x 1-1/2"	61866	----
CGD-3020-A	3" x 2"	61867	----
CGD-4030-A	4" x 3"	61868	----

SPOOL COUPLER PART D

DD

FEMALE COUPLER X FEMALE COUPLER

PART#	SIZE	PART#	
*DD-1515-A	1-1/2" x 1-1/2"	*619440	----
*DD-2020-A	2" x 2"	*619450	----
*DD-2030-A	2" x 3"		----
*DD-3030-A	3" x 3"	*619470	----
*DD-3040-A	3" x 4"		----
*DD-4040-A	4" x 4"	*619480	----

SWIVEL PART D

FEMALE COUPLER X FEMALE PIPE

CGDSV

PART#	SIZE	
*CGDSV-300-A	3"	----
*CGDSV-400-A	4"	----

REDUCER ADAPTER MALE NPT PART F

CGF

MALE ADAPTER X MIP

Part#	Size		
CGF-1520-A	1-1/2" x 2"		----
*CGF-2030-A	2" x 3"		----
*CGF-3020-A	3" x 2"	61870	----
*CGF-3040-A	3" x 4"	61871	----
CGF-4030-A	4" x 3"		----
CGF-4060-A	4" x 6"		----

POLYPROPYLENE (PP)

MALE ADAPTER X FEMALE NPT
TYPE A

35-91X

PART#	SIZE	
CGA-050-PP	1/2"	----
CGA-075-PP	3/4"	----
CGA-100-PP	1"	----
CGA-125-PP	1-1/4"	----
CGA-150-PP	1-1/2"	----
*CGA-200-PP	2"	----
CGA-300-PP	3"	----
CGA-400-PP	4"	----

FEMALE COUPLER X MALE NPT
TYPE B

CGB
35-92X

PART#	SIZE	
CGB-050-PP	1/2"	----
CGB-075-PP	3/4"	----
CGB-100-PP	1"	----
CGB-125-PP	1-1/4"	----
CGB-150-PP	1-1/2"	----
*CGB-200-PP	2"	----
*CGB-300-PP	3"	----
CGB-400-PP	4"	----

FEMALE COUPLER X HOSE SHANK
TYPE C

CGC
35-93X

PART#	SIZE	
CGC-050-PP	1/2"	----
CGC-075-PP	3/4"	----
CGC-100-PP	1"	----
CGC-125-PP	1-1/4"	----
CGC-150-PP	1-1/2"	----
*CGC-200-PP	2"	----
*CGC-300-PP	3"	----
CGC-400-PP	4"	----

FEMALE COUPLER X FEMALE NPT
TYPE D

35-94X

PART#	SIZE	
CGD-050-PP	1/2"	----
CGD-075-PP	3/4"	----
CGD-100-PP	1"	----
CGD-125-PP	1-1/4"	----
CGD-150-PP	1-1/2"	----
*CGD-200-PP	2"	----
CGD-300-PP	3"	----
CGD-400-PP	4"	----

MALE ADAPTER X HOSE SHANK TYPE E

35-95X

PART#	SIZE	
CGE-050-PP	1/2"	----
CGE-075-PP	3/4"	----
CGE-100-PP	1"	----
CGE-125-PP	1-1/4"	----
CGE-150-PP	1-1/2"	----
*CGE-200-PP	2"	----
*CGE-300-PP	3"	----
CGE-400-PP	4"	----

MALE ADAPTER X MALE NPT TYPE F

35-96X

PART#	SIZE	
CGF-050-PP	1/2"	----
CGF-075-PP	3/4"	----
CGF-100-PP	1"	----
CGF-125-PP	1-1/4"	----
CGF-150-PP	1-1/2"	----
*CGF-200-PP	2"	----
*CGF-300-PP	3"	----
CGF-400-PP	4"	----

DUST CAP TYPE DC

CDC
35-97X

PART#	SIZE	
CDC-050-PP	1/2"	----
CDC-075-PP	3/4"	----
CDC-100-PP	1"	----
CDC-125-PP	1-1/4"	----
CDC-150-PP	1-1/2"	----
*CDC-200-PP	2"	----
*CDC-300-PP	3"	----
CDC-400-PP	4"	----

DUST PLUG TYPE DP

CDP
35-98X

PART#	SIZE	
CDP-050-PP	1/2"	----
CDP-075-PP	3/4"	----
CDP-100-PP	1"	----
CDP-125-PP	1-1/4"	----
CDP-150-PP	1-1/2"	----
CDP-200-PP	2"	----
CDP-300-PP	3"	----
CDP-400-PP	4"	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STAINLESS STEEL CAM AND GROOVE #316

HOSE ACCESSORIES

MALE ADAPTER X FEMALE NPT
TYPE A

CGA
6391X

PART#	SIZE	
CGA-050-SS1	1/2"	----
*CGA-075-SS1	3/4"	----
*CGA-100-SS1	1"	----
*CGA-125-SS1	1-1/4"	----
*CGA-150-SS1	1-1/2"	----
*CGA-200-SS1	2"	----
*CGA-250-SS1	2-1/2"	----
*CGA-300-SS1	3"	----
*CGA-400-SS1	4"	----
*CGA-500-SS1	5″	----
CGA-600-SS1	6″	----
CGA-800-SS1	8″	----

FEMALE COUPLER X MALE NPT
TYPE B

CGB
6392X

PART#	SIZE	
CGB-050-SS1	1/2"	----
*CGB-075-SS1	3/4"	----
*CGB-100-SS1	1"	----
CGB-125-SS1	1-1/4"	----
*CGB-150-SS1	1-1/2"	----
*CGB-200-SS1	2"	----
CGB-250-SS1	2-1/2"	----
*CGB-300-SS1	3"	----
*CGB-400-SS1	4"	----
CGB-500-SS1	5″	----
CGB-600-SS1	6″	----
CGB-800-SS1	8"	----

FEMALE COUPLER X HOSE SHANK
TYPE C

CGC
6393X

PART#	SIZE	
CGC-050-SS1	1/2"	----
*CGC-075-SS1	3/4"	----
*CGC-100-SS1	1"	----
*CGC-125-SS1	1-1/4"	----
*CGC-150-SS1	1-1/2"	----
*CGC-200-SS1	2"	----
CGC-250-SS1	2-1/2"	----
*CGC-300-SS1	3"	----
*CGC-400-SS1	4"	----
CGC-500-SS1	5″	----
*CGC-600-SS1	6″	----
CGC-800-SS1	8″	----

FEMALE COUPLER X FEMALE NPT
TYPE D

CGD
6394X

PART#	SIZE	
*CGD-050-SS1	1/2"	----
*CGD-075-SS1	3/4"	----
*CGD-100-SS1	1"	----
*CGD-125-SS1	1-1/4"	----
*CGD-150-SS1	1-1/2"	----
*CGD-200-SS1	2"	----
*CGD-250-SS1	2-1/2"	----
*CGD-300-SS1	3"	----
*CGD-400-SS1	4"	----
*CGD-500-SS1	5″	----
CGD-600-SS1	6″	----

8" AVAILABLE ONLINE

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MALE ADAPTER X HOSE SHANK TYPE E

SA
6395X

PART#	SIZE	
CGE-050-SS1	1/2"	----
*CGE-075-SS1	3/4"	----
*CGE-100-SS1	1"	----
*CGE-125-SS1	1-1/4"	----
*CGE-150-SS1	1-1/2"	----
*CGE-200-SS1	2"	----
*CGE-250-SS1	2-1/2"	----
*CGE-300-SS1	3"	----
*CGE-400-SS1	4"	----
*CGE-500-SS1	5″	----
*CGE-600-SS1	6″	----
CGE-800-SS1	8"	----

DUST CAP TYPE DC

6397X

PART#	SIZE	
CDC-050-SS1	1/2"	----
*CDC-075-SS1	3/4"	----
*CDC-100-SS1	1"	----
CDC-125-SS1	1-1/4"	----
*CDC-150-SS1	1-1/2"	----
*CDC-200-SS1	2"	----
CDC-250-SS1	2-1/2"	----
*CDC-300-SS1	3"	----
*CDC-400-SS1	4"	----
CDC-500-SS1	5″	----
CDC-600-SS1	6″	----
CDC-800-SS1	8"	----

MALE ADAPTER X MALE NPT TYPE F

CGF
6396X

PART#	SIZE	
CGF-050-SS1	1/2"	----
*CGF-075-SS1	3/4"	----
*CGF-100-SS1	1"	----
CGF-125-SS1	1-1/4"	----
*CGF-150-SS1	1-1/2"	----
*CGF-200-SS1	2"	----
CGF-250-SS1	2-1/2"	----
*CGF-300-SS1	3"	----
*CGF-400-SS1	4"	----
CGF-500-SS1	5″	----
*CGF-600-SS1	6″	----
CGF-800-SS1	8"	----

DUST PLUG TYPE DP

6398X

PART#	SIZE	
*CDP-050-SS1	1/2"	----
*CDP-075-SS1	3/4"	----
*CDP-100-SS1	1"	----
CDP-125-SS1	1-1/4"	----
*CDP-150-SS1	1-1/2"	----
*CDP-200-SS1	2"	----
CDP-250-SS1	2-1/2"	----
*CDP-300-SS1	3"	----
*CDP-400-SS1	4"	----
CDP-600-SS1	6″	----
CDP-800-SS1	8"	----

STAINLESS STEEL CAM AND GROOVE #316

HOSE ACCESSORIES

PART A SPOOL ADAPTER STAINLESS

PART#	SIZE	PART#	
SA-100-SS	1"	63850	----
SA-150-SS	1-1/2"	63851	----
SA-1520-SS	1-1/2" x 2"	63852	----
SA-200-SS	2"	63853	----
SA-2030-SS	2" x 3"	63854	----
SA-300-SS	3"	63855	----
SA-3040-SS	3" x 4"	63856	----
SA-400-SS	4"	63857	----

PART D SPOOL COUPLER STAINLESS 316

PART#	SIZE	PART#	
*DD-1515-SS	1-1/2" x 1-1/2"	639440	----
*DD-2020-SS	2" x 2"	639450	----
*DD-2030-SS	2" x 3"		----
*DD-3030-SS	3" x 3"	639470	----
*DD-3040-SS	3" x 4"		----
*DD-4040-SS	4" x 4"	639480	----

PART D REDUCER COUPLER ADAPTER STAINLESS 316

PART#	SIZE	PART#	
*DA-2030-SS	2" x 3"		----
*DA-3020-SS	3" x 2"	639002	----
*DA-3040-SS	3" x 4"		----
*DA-4030-SS	4" x 3"	639003	----
*DA-6040-SS	6" x 4"	639004	----

PART D STAINLESS 90° ELBOW

PART#	SIZE	
*CGD-2090-SS	2"	----

THE ELEPHANT ROPE

A gentleman was walking through an elephant camp, and he spotted that the elephants weren't being kept in cages or held by the use of chains.

All that was holding them back from escaping the camp, was a small piece of rope tied to one of their legs.

As the man gazed upon the elephants, he was completely confused as to why the elephants didn't just use their strength to break the rope and escape the camp. They could easily have done so, but instead, they didn't try to at all.

Curious and wanting to know the answer, he asked a trainer nearby why the elephants were just standing there and never tried to escape.

The trainer replied;
"when they are very young and much smaller we use the same size rope to tie them and, at that age, it's enough to hold them. As they grow up, they are conditioned to believe they cannot break away. They believe the rope can still hold them, so they never try to break free."

The only reason that the elephants weren't breaking free and escaping from the camp was that over time they adopted the belief that it just wasn't possible.

Moral of the story:
No matter how much the world tries to hold you back, always continue with the belief that what you want to achieve is possible. Believing you can become successful is the most important step in actually achieving it.

- UNKNOWN

BRASS

MALE ADAPTER X FEMALE NPT TYPE A

4491X

PART#	SIZE	
CGA-050-B1	1/2"	----
*CGA-075-B1	3/4"	----
*CGA-100-B1	1"	----
CGA-125-B1	1-1/4"	----
CGA-150-B1	1-1/2"	----
*CGA-200-B1	2"	----
CGA-250-B1	2-1/2"	----
*CGA-300-B1	3"	----
*CGA-400-B1	4"	----
CGA-500-B1	5″	----
*CGA-600-B1	6″	----

FEMALE COUPLER X HOSE SHANK TYPE C

4493X

PART#	SIZE	
CGC-050-B1	1/2"	----
*CGC-075-B1	3/4"	----
*CGC-100-B1	1"	----
CGC-125-B1	1-1/4"	----
CGC-150-B1	1-1/2"	----
*CGC-200-B1	2"	----
CGC-250-B1	2-1/2"	----
*CGC-300-B1	3"	----
*CGC-400-B1	4"	----
CGC-500-B1	5″	----
*CGC-600-B1	6″	----

FEMALE COUPLER X MALE NPT TYPE B

4492X

PART#	SIZE	
CGB-050-B1	1/2"	----
*CGB-075-B1	3/4"	----
*CGB-100-B1	1"	----
CGB-125-B1	1-1/4"	----
*CGB-150-B1	1-1/2"	----
*CGB-200-B1	2"	----
CGB-250-B1	2-1/2"	----
*CGB-300-B1	3"	----
*CGB-400-B1	4"	----
CGB-500-B1	5″	----
CGB-600-B1	6″	----

FEMALE COUPLER X FEMALE NPT TYPE D

4494X

PART#	SIZE	
CGD-050-B1	1/2"	----
*CGD-075-B1	3/4"	----
*CGD-100-B1	1"	----
*CGD-125-B1	1-1/4"	----
CGD-150-B1	1-1/2"	----
*CGD-200-B1	2"	----
CGD-250-B1	2-1/2"	----
*CGD-300-B1	3"	----
*CGD-400-B1	4"	----
CGD-500-B1	5″	----
*CGD-600-B1	6″	----

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BRASS CAM AND GROOVE
HOSE ACCESSORIES

MALE ADAPTER X HOSE SHANK
TYPE E

4495X

PART#	SIZE	
CGE-050-B1	1/2"	----
*CGE-075-B1	3/4"	----
*CGE-100-B1	1"	----
*CGE-125-B1	1-1/4"	----
*CGE-150-B1	1-1/2"	----
*CGE-200-B1	2"	----
CGE-250-B1	2-1/2"	----
*CGE-300-B1	3"	----
*CGE-400-B1	4"	----
CGE-500-B1	5″	----
*CGE-600-B1	6″	----

DUST CAP
TYPE DC

4497X

PART#	SIZE	
CDC-050-B1	1/2"	----
*CDC-075-B1	3/4"	----
*CDC-100-B1	1"	----
CDC-125-B1	1-1/4"	----
CDC-150-B1	1-1/2"	----
*CDC-200-B1	2"	----
CDC-250-B1	2-1/2"	----
*CDC-300-B1	3"	----
*CDC-400-B1	4"	----
CDC-500-B1	5″	----
CDC-600-B1	6″	----

MALE ADAPTER X MALE NPT
TYPE F

4496X

PART#	SIZE	
CGF-050-B1	1/2"	----
*CGF-075-B1	3/4"	----
*CGF-100-B1	1"	----
*CGF-125-B1	1-1/4"	----
*CGF-150-B1	1-1/2"	----
*CGF-200-B1	2"	----
CGF-250-B1	2-1/2"	----
*CGF-300-B1	3"	----
*CGF-400-B1	4"	----
CGF-500-B1	5″	----
CGF-600-B1	6″	----

DUST PLUG
TYPE DP

4498X

PART#	SIZE	
CDP-050-B1	1/2"	----
*CDP-075-B1	3/4"	----
*CDP-100-B1	1"	----
CDP-125-B1	1-1/4"	----
CDP-150-B1	1-1/2"	----
*CDP-200-B1	2"	----
CDP-250-B1	2-1/2"	----
*CDP-300-B1	3"	----
*CDP-400-B1	4"	----
CDP-500-B1	5″	----
CDP-600-B1	6″	----

QUICKLOK HANDLE FOR ALUMINUM, BRASS & SS

PART#	SIZE	
HSK2-200-SS	1-1/2"	----
HSK2-300-SS	3"	----
HSK5-200-SS	1-1/2-1	----
HSK5-300-SS	3-4	----

QUICKLOK HANDLE FOR SS AND ALUMINUM

PART#	SIZE	
HSK5-200-SS	1-1/2-2"	----
HSK5-300-SS	3-4"	----

INVESTMENT CAST STAINLESS STEEL HANDLE, RING & PIN

PART#	SIZE	
61447	3/4"	----
61448	1"	----
61449	1-1/4" - 2-1/2"	----
61452	3" & 4"	----
61454	6"	----

FORGED BRASS HANDLE - RING & PIN STEEL

PART#	SIZE	
61455	3/4"	----
61450	1"	----
61451	1-1/4" - 2-1/2"	----
61453	3" & 4"	----
61457	6"	----

SAFETY CLIP

PART #	SIZE	
66-015	1-1/4" - 2-1/2"	----

HANDLE + PIN + RING BRASS

"Nothing is particularly hard if you divide it into small jobs"

"You can't build a reputation on what you are going to do."

"Anyone who stops learning is old, whether at twenty or eighty. Anyone who keeps learning stays young."

"Don't find fault, find a remedy; anybody can complain."

"The only real mistake is the one from which we learn nothing."

"It has been my observation that most people get ahead during the time that others waste."

- Henry Ford

GASKETS
HOSE ACCESSORIES

CAMLOCK GASKET EPDM

PART#	SIZE	
CG-050-EPDM	1/2″	----
CG-200-EPDM	2″	----
CG-300-EPDM	3″	----

CAMLOCK GASKET NBR

PART#	SIZE	
CG-075-NBR	3/4	----
CG-100-NBR	1	----
CG-125-NBR	1-1/4	----
CG-150-NBR	1-1/2	----
CG-200-NBR	2	----
CG-250-NBR	2-1/2	----
CG-300-NBR	3	----
CG-400-NBR	4	----
CG-500-NBR	5	----
CG-600-NBR	6	----
CG-800-NBR	8	----

CAMLOCK GASKET VITON

PART#	SIZE	
CG-050-VI	1/2	----
CG-075-VI	3/4	----
CG-100-VI	1	----
CG-125-VI	1-1/4	----
CG-150-VI	1-1/2	----
CG-200-VI	2	----
CG-250-VI	2-1/2	----
CG-300-VI	3	----
CG-400-VI	4	----

BUNA-N GASKET

PART#	SIZE	
BG50	1/2″	----
BG75	3/4″	----
BG100	1″	----
BG125	1-1/4″	----
BG150	1-1/2″	----
BG200	2″	----
BG250	2-1/2″	----
BG300	3″	----
BG400	4″	----
BG500	5″	----
BG600	6″	----
BG800	8″	----

SILICONE GASKET

PART#	SIZE	
SG300	3"	----
SG400	4"	----

VITON GASKET

PART#	SIZE	
VG100	1"	----
VG150	1-1/2"	----
VG200	2"	----
VG250	2-1/2"	----
VG300	3"	----

COMBINATION NIPPLES

HOSE BARB X MALE PIPE

STEEL HOSE NIPPLES

CNT-XXX-S ▪ BLACK

(BARB X MALE PIPE)

PART #	HOSE SIZE	
*973850	1/2"	----
*973851	3/4"	----
*973852	1"	----
*973853	1-1/4"	----
*973854	1-1/2"	----
*973855	2"	----
*973856	2-1/2"	----
*973857	3"	----
*973858	4"	----
*CNT-600-S	6"	----
*973861	8"	----
*CNT-1200-S	12"	----

COMBINATION NIPPLE 316 STAINLESS

CNT-XXX-S316

PART #	SIZE	
*973700	1/2"	----
*973701	3/4"	----
*973702	1"	----
973703	1-1/4"	----
*973704	1-1/2"	----
*973705	2"	----
973706	2-1/2"	----
973707	3"	----
973708	4"	----

ZINC PLATED STEEL

CNT-XXX-SP

PART #	SIZE	
*973870	1/2"	----
*973871	3/4"	----
*973872	1"	----
*973873	1-1/4"	----
*973874	1-1/2"	----
*973875	2"	----
*973876	2-1/2"	----
*973877	3"	----
*973878	4"	----
*973879	5"	----
*973880	6"	----
*973881	8"	----
CNT-1200-SP	12"	----

ZINC PLATED STEEL EXPANDER & REDUCER

EXP
RED

HOSE X MIP

PART #	SIZE	
*973862	3/4 x 1	----
*973884	1 x 3/4	----
973863	1 x 1-1/4	----
*973885	1-1/4 x 1	----
*973886	1-1/4 x 1-1/2	----
*973887	1-1/2 x 1-1/4	----
*973864	1-1/2 x 2	----
*973888	2 x 1-1/2	----
*973859	2 x 2-1/2	----
*973869	2-1/2 x 2	----
*973865	2-1/2 x 3	----
*973867	3 x 2-1/2	----
*973866	3 x 4	----
*973868	4 x 3	----

COMBINATION NIPPLES
HOSE BARB X MALE PIPE

BRASS

CNT-XXX-B

▪ LEAD FREE

PART #	SIZE	
973600	1/2"	----
973601	3/4"	----
973602	1"	----
973603	1-1/4"	----
973604	1-1/2"	----
973605	2"	----
973606	2-1/2"	----
973607	3"	----
CNT-400-B	4"	----

ALUMINUM

CNT-XXX-A

PART #	SIZE	
973620	1/2"	----
973621	3/4"	----
973622	1"	----
973623	1-1/4"	----
973624	1-1/2"	----
*973625	2"	----
*973626	2-1/2"	----
*973627	3"	----
*973628	4"	----

VICTAULIC GROOVED
COMBINATION NIPPLES

COMBINATION NIPPLE PLAIN STEEL VICTAULIC GROOVED

CNG-S

PART #	HOSE SIZE	
*CNG-200-S	2"	----
*CNG-300-S	3"	----
*CNG-400-S	4"	----
*CNG-600-S	6"	----

COMBINATION NIPPLE PLATED VICTAULIC GROOVED

PART#	SIZE	
CNG-150-SP	1-1/2"	----
*CNG-200-SP	2"	----
CNG-250-SP	2-1/2"	----
CNG-300-SP	3"	----
*CNG-400-SP	4"	----
CNG-500-SP	5"	----
*CNG-600-SP	6"	----

HOSE MENDERS

MENDER PLAIN STEEL

HM-S

PART #	HOSE SIZE	
973890	1/2"	----
HM-063-S	5/8"	----
973891	3/4"	----
973892	1"	----
973893	1-1/4"	----
973894	1-1/2"	----
973895	2"	----
HM-300-S	3"	----
HM-400-S	4"	----
HM-600-S	6"	----
HM-800-S	5"	----

MENDER PLATED STEEL

PART #	SIZE	
973650	3/8"	----
973651	1/2"	----
HM-063-SP	5/8"	----
973652	3/4"	----
973653	1"	----
973654	1-1/4"	----
973655	1-1/2"	----
973656	2"	----
973657	2-1/2"	----
973658	3"	----
973659	4"	----
HM-600-SP	6"	----
HM-800-SP	8"	----

316 STAINLESS STEEL HOSE MENDER

PART #	SIZE	
73669	1/2"	----
73670	3/4"	----
73671	1"	----
73672	1-1/4"	----
73673	1-1/2"	----
73674	2"	----
73675	2-1/2"	----
73676	3"	----
73677	4"	----

BRASS HOSE MENDER

▪ LEAD FREE

PART #	SIZE	
73983	3/4"	----
73984	1"	----
73985	1-1/4"	----
73986	1-1/2"	----
73987	2"	----

UNIVERSAL COUPLING

MALE NPT ENDS

- Twist claw/ universal/ chicago

- Malleable iron
- ISO PSI

ME-XXX-SP

* Safety clip included

PART #	SIZE	
ME-025-SP	1/4	----
66005	3/8"	----
66006	1/2"	----
66007	3/4"	----
66008	1"	----

WASHER

PART #	
66000	----

FEMALE NPT ENDS

* Safety clip included

PART #	SIZE	
FE-025-SP	1/4"	----
66009	3/8"	----
66010	1/2"	----
66011	3/4"	----
66012	1"	----
FE-125-SP	1-1/4"	----
FE-150-SP	1-1/2"	----
FE-200-SP	2"	----

HOSE END

SEE CRIMPLOK SECTION

HE-XXX-SP

* Safety clip included

PART #	SIZE	
66001	3/8"	----
66002	1/2"	----
66003	3/4"	----
66004	1"	----
HE-125-SP	1-1/4"	----
HE-150-SP	1-1/2"	----
HE-200-SP	2"	----

SAFETY CLIP

PART #	SIZE	
66-015	1-1/4" - 2-1/2"	----

TRIPLE CONNECTIONS

UW-300-SP

PART #	
66013	----

UNIVERSAL BLANK END

ISO PSI

PART #	SIZE	
BE-300-SP		----

GROUND JOINT COUPLING

HIGH PRESSURE FEMALE+ WING NUT+FEMALE SPUD

PART #	SIZE	
73003	1/2	----
73004	3/4	----
73005	1	----
73006	1-1/4	----
73007	1-1/2	----
73008	2	----
73009	2-1/2	----
73010	3	----
73011	4	----

HIGH PRESSURE WING NUT

PART #	SIZE	PART #	
73033	1/2	*GJN-050-DP	----
73035	3/4	*GJN-075-DP	----
73036	1-1/4	*GJN-125-DP	----
73037	1-1/2	*GJN-150-DP	----
73038	2	*GJN-200-DP	----
73039	2-1/2		
73040	3	*GJN-300-DP	----
73041	4		

HIGH PRESSURE FEMALE STEM

PART #	SIZE	PART #	
73023	1/2	*GJS-050-SP	----
73024	3/4	*GJS-075-DP	----
73025	1	*GJS-100-DP	----
73026	1-1/4	*GJS-125-DP	----
73027	1-1/2	*GJS-150-DP	----
73028	2	*GJS-200-DP	----
73029	2-1/2"		
73030	3"		
73031	4"		

HIGH PRESSURE FEMALE SPUD

PART #	SIZE	PART #	
73063	1/2	*GJF-050-SP	----
73064	3/4	*GJF-075-DP	----
73065	1	*GJF-100-DP	----
73066	1-1/4	*GJF-125-DP	----
73067	1-1/2	*GJF-150-DP	----
73068	2	*GJF-200-DP	----
73070	3	*GJF-300-DP	----

HIGH PRESSURE DOUBLE SPUD

PART #	SIZE	
GDS-050-B	1/2	----
*GDS-075-B	3/4	----

GROUND JOINT COUPLINGS/ ALUMINUM SHORT SHANKS

HOSE ACCESSORIES

2 BOLT HIGH PRESSURE CLAMP

PART #	HOSE ID	CLAMP RANGE	MAX BOLT TORQUE	
*BC2-075A-DP	3/4"	1-5/32"-1-9/32"	21FT LBS	----
*BC2-075C-DP	3/4"	1-5/16"-1-1/2"	21FT LBS	----

4 BOLT HIGH PRESSURE CLAMP

PART #	HOSE ID	CLAMP RANGE	MAX BOLT TORQUE	
BC4-100B-DP	1"	1.53-1.72	21FT LBS	----
BC4-125-DP	1-1/4"	2.06-2.25	40FT LBS	----
BC4-200A-DP	2"	2-11/32"-2-17/32"	60FT LBS	----
BC4-200-DP	2-1/2"	3-3/32"-3-7/16"	60FT LBS	----

HIGH PRESSURE MALE STEM

PART #	LIST	SIZE	PART #	
73043		1/2	*GJM-050-SP	----
73044		3/4	*GJM-075-SP	----
73045		1	*GJM-100-SP	----
73046		1-1/4	*GJM-125-DP	----
73047		1-1/2	*GJM-150-DP	----
73048		2	*GJM-200-DP	----
73049		2-1/2		
73050		3		
73051		4		

NPT STEEL HEX NIPPLE

PART #	SIZE	
HNC-04-02-SP	1/4 x 1/8	----
HNC-04-04-SP	1/4 x 1/4	----
HNC-06-04-SP	3/8 x 1/4	----
HNC-06-06-SP	3/8 x 3/8	----
HNC-08-06-SP	1/2 x 3/8	----
HNC-08-08-SP	1/2 x 1/2	----
HNC-12-08-SP	3/4 x 1/2	----
HNC-16-12-SP	1 x 3/4	----

SHORT SHANK ALUMINUM SET NPS

PART #	SIZE	
PL-150-AD	1-1/2	----
*PL-200-AD	2	----
*PL-300-AD	3	----
*PL-400-AD	4	----

FEMALE END

PART #	SIZE	
PF-150-AD	1-1/2	----
PF-200-AD	2	----
PF-300-AD	3	----
PF-400-AD	4	----
PF-600-AD	6	----

MALE END

PART #	SIZE	
PM-150-A	1-1/2	----
PM-200-A	2	----
PM-300-A	3	----

LARGE SAFETYCHECK FOR HOSE/ HOSE AND HOSE/TOOL

HOSE TO HOSE

PART #	SIZE	
WHIP-L	1-1/2" HOSE, 37" LONG	----
WHIP-S	1/2-1-1/4" HOSE 22" LONG	----

FOOT VALVE

PART #	SIZE	
*FV-200-DP	2	----
*FV-300-DP	3	----
*FV-400-DP	4	----
*FV-600-DP	6	----

STRAINER ROUND HOLE

PART #	SIZE	
*SR-200-SP	2	----
*SR-250-SP	2-1/2	----
*SR-300-SP	3	----
*SR-400-SP	4	----
*SR-600-SP	6	----
*SR-800-SP	8	----

STRAINER ROUND HOLE LONG THIN

PART #	SIZE	
*SL-200-SP	2	----
*SL-300-SP	3	----

STRAINER BOTTOM HOLE

PART #	SIZE	STRAINER HOSE SIZE	
SB-200-SP	2		----
SB-300-SP	3		----

STRAINER STRAINER BOTTOM HOLE

PART #	SIZE	
SCR-300-SS304	3	----
SCR-400-SS304	4	----

PLASTIC FOG NOZZLE GHT

PART #	SIZE	
FN-075	3/4	----
FN-075R	3/4	----

PLASTIC FOG NOZZLE NPS

PART #	SIZE	
FN-100	1	----
*FN-150	1-1/2	----
FN-200	2	----

GREEN ABS FOG NOZZLE GHT

PART #	SIZE	
FN-075G	3/4	----

FIRE HOSE FITTINGS

HYDRANT ADAPTERS - BRASS

PART #	DESCRIPTION	
444011	1-1/2" NST x 3/4" GHT	----
444000	2-1/2" NST x 3/4" GHT	----
444001	2-1/2" NST x 3/4" NPT	----
444002	2-1/2" NST x 1" NPT	----
444005	2-1/2" NST x 1-1/2" NPT	----
444007	2-1/2" NST x 2" NPSH	----
444008	2-1/2" NST x 2" NPT	----
444006	2-1/2" NST x 1-1/2" NST	----

FEMALE TO MALE HEX ADAPTER - BRASS

PART #	DESCRIPTION	
444021	1-1/2" NST x 1-1/2" NPSH	----
444023	1-1/2" NPT x 1-1/2" NPSH	----
444020	1-1/2" NST x 1-1/2" NPT	----
444318	2 NPT x 2-1/2" NST	----

CAP - BRASS

PART #	DESCRIPTION	
444062	2-1/2" NST	----
444313	4-1/2" NST	----
444320	2-1/2" NST PLUG	----
444060	1-1/2" NST	----

DOUBLE MALE HEX NIPPLE - BRASS

PART #	DESCRIPTION	
444042	1-1/2" NPT x 1-1/2" NPSH	----
444040	1-1/2" NPT x 1-1/2" NST	----
444048	2" NPT x 2-1/2" NST	----
444095	2-1/2" NST x 1-1/2" NST	----
444045	2-1/2" NPT x 2-1/2" NST	----
444049	3" NPT x 2-1/2" NST	----

MALE SWIVEL ADAPTER - BRASS W/ LUGS

PART #	DESCRIPTION FEMALE X MALE	
444111	2-1/2" NST x 2" NPT	----
444112	2-1/2" NST x 2-1/2" NPT	----
444113	2-1/2" NST x 3" NPT	----

BRASS NOZZLE

PART #	SIZE	
HN-075-B	3/4"	----
*HN-100-B	1"	----
HN-125-B	1-1/4"	----
HN-150-B	1-1/2"	----
HN-200-B	2"	----
HN-250-B	2-1/2"	----

BUCHANAN HOSE

HOSE INFORMATION
HOSE ACCESSORIES

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Air Hoses *- Also Available: Montana, Hi-Temp Steelflex Air, Oroflex Air, Oroflex 20, Duraflex 20 & Hot Air Blower*					
Super Service Air	Yellow cut and abrasion resistant cover with blue stripe. Tube is oil resistant synthetic rubber.	A superior quality mining, construction and industrial hose.	400 PSI	1/2" - 4"	-35ºC to +80ºC -30ºF to +180ºF
Contractors Air	Yellow cut and abrasion resistant rubber cover with oil mist resistant synthetic rubber tube.	For mining, construction, and industrial use.	250 - 300 PSI	1/2" - 4"	-35ºC to +80ºC -30ºF to +180ºF
Steelflex Air	Yellow cut and abrasion resistant cover with red stripe. Tube is oil resistant synthetic rubber.	High pressure steel reinforced air service for mining, construction and industrial use. More resistant to external abuse than textile air hose. Mandrel built.	400 - 1000 PSI	1/2" - 4"	-35ºC to +80ºC -30ºF to +180ºF
Jackhammer	Smooth Yellow cut and abrasion resistant rubber cover with oil mist resistant synthetic rubber tube.	An economical air hose for jackhammer and other uses on construction sites. Also for general industrial use.	300 PSI	3/4"	-35ºC to +80ºC -30ºF to +180ºF
General Purpose *- Also Available: General Purpose, Urethane General Purpose & Self Storing Air*					
Premium General Purpose - Non Conductive	Red, oil, grease,weather and abrasion resistant nitrile/pvc cover with nitrile tube.	A premium quality long length hose for petroleum based fluids, lubricating oils, air, hot water and some chemical solutions.	250 - 300 PSI	1/4" - 1 1/2"	-32ºC to +85ºC -25ºF to +185ºF
EPDM General Purpose	Smooth red abrasion and weather resistant EPDM synthetic rubber tube and cover.	Air, water, agricultural spray solutions, and other dilute chemicals. Excellent resistance to heat and weathering. Also resists animal fats, vegetable oils and Methyl Ethyl Ketone.	150 - 250 PSI	1/4" - 2"	-30ºC to +93ºC -20ºF to +200ºF
Clear Reinforced PVC	Clear smooth PVC.	An economical FDA quality hose for handling air, water, oil, mild chemicals, and alkalis. Clear wall allows visual inspection of product. 3A/USDA/NSF-51 Compliant.	65 - 250 PSI	3/16" - 2"	-5ºC to +65ºC +25ºF to +150ºF
Push On	Black, Grey, Red, Blue, or Yellow oil, weather and abrasion resistant nitrile/pvc cover with nitrile tube.	Transmission of most petroleum-based hydraulic fluids, mineral oil, diesel fuel, engine coolant solutions, agricultural sprays and a wide range of chemical solutions.	250 - 300 PSI	1/4" - 3/4"	-32ºC to +80ºC -25ºF to +180ºF
Arctic General Purpose	Blue weather and oil resistant synthetic rubber specially compounded for arctic service featuring a static wire.	A premium general purpose hose for conveying air, water, petroleum products and some chemicals under arctic conditions.	300 PSI	1/2" - 2"	-54ºC to +65ºC -65ºF to +150ºF
Water Discharge *- Also Available: H.D Water Discharge, Garden Hose, High Pressure Water Discharge, Papermill, Packers Washdown, White Sanitary & Single Jacket Industrial Mill*					
Oroflex 10 Layflat	Black abrasion, weather and oil resistant nitrile rubber cover with oil resistant nitrile rubber tube.	A lightweight high pressure, extremely strong hose for general water and oil discharge, and for some chemicals.	150 - 200 PSI	1 1/2" - 8"	-20ºC to +80ºC 0ºF to +180ºF
Duraflex - Rubber Layflat	Black abrasion, weather and oil resistant nitrile rubber.	This is a lightweight high pressure, extremely strong hose for general water discharge service. Ideal for rental service where long life and competitive pricing is paramount. Its compact characteristics make this an ideal hose for use with portable pumps. Especially suited for pumping oily contaminated water.	150 - 200 PSI	2" - 6"	-20ºC to +80ºC 0ºF to +180ºF
Pressure Washer	Smooth cover blue and black (also wrapped version) oil resistant synthetic rubber cover. One high tensile steel braid with oil resistant synthetic rubber tube.	Extremely flexible, compact hose for use on pressure washers with working pressures up to 3000 psi. Available in 4500 psi, 250ºF.	3000 PSI	3/8"	-29ºC to +100ºC -20ºF to +212ºF

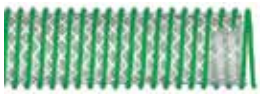
HOSE INFORMATION
HOSE ACCESSORIES

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Water Discharge - *Also Available: H.D Water Discharge, Garden Hose, High Pressure Water Discharge, Papermill, Packers Washdown & White Sanitary*					
PVC Layflat	Blue, Brown or Green PVC impregnation.	Light (Blue) to Heavy (Brown and Green) duty layflat hose for portable pump and irrigation use.	30 - 150 PSI	3/4" - 12"	-10ºC to +60ºC +15ºF to +140ºF
Contractors and Contractors Plus Water Discharge	Black abrasion and weather resistant synthetic rubber cover with synthetic rubber tube.	A lightweight water discharge hose which is ideal for use with portable pumps, and general water discharge service.	75 - 100 PSI	1 1/4" - 12"	-35ºC to +80ºC -30ºF to +180ºF
Contractors Water Discharge - Industrial Garden Hose	Black abrasion and weather resistant synthetic rubber cover with synthetic rubber tube.	For use on construction sites and general water service.	150 - 300PSI	1/2" - 1"	-35ºC to +80ºC -30ºF to +180ºF
Water Suction - *Also Available: EPDM Aggie Water S & D*					
Superflex	A hose constructed with extra soft PVC, a feature that ensures greater flexibility and ease of handling at very low temperatures. Also available with static wire.	Can be used for light oil, grease and animal fat suction. It can also be used in more general applications where great flexibility is required at very low temperatures.	35 - 70 PSI 29" HG	2" - 6"	-40ºC to +60ºC -40ºF to +140ºF
Rubber Water S & D	Black smooth abrasion and weather resistant synthetic rubber.	A heavy duty wire reinforced rubber suction hose for construction, quarries and general use.	50 - 200 PSI 29" HG	3/4" - 12"	-30ºC to +80ºC -22ºF to +180ºF
Saturn Water S & D	Clear abrasion and weather resistant extra soft low temperature PVC with blue helix	An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations. Soft low temperature compounds allow for increased flexibility.	25 - 45 PSI 29" HG	3/4" - 6"	-40ºC to +65ºC -40ºF to +150ºF
Saturn Green PVC Water S & D	Clear abrasion and weather resistant PVC.	An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations.	25 - 90 PSI 28 - 29" HG	3/4" - 8"	-20ºC to +65ºC -5ºF to +150ºF
Saturn Low Temperature PVC Water S & D	Clear abrasion and weather resistant extra soft PVC.	An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations. Specially formulated compounds allow for increased flexibility at low temperatures.	35 - 90 PSI 29" HG	3/4" - 6"	-40ºC to +65ºC -40ºF to +150ºF
Saturn Grey PVC Water S & D	Clear abrasion and weather resistant PVC.	An economical, flexible hose for construction pumps, septic tank & irrigation lines. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations.	15 - 45 PSI 26 - 29" HG	1" - 12"	-40ºC to +65ºC -40ºF to +150ºF
Textile Reinforced S & D	Clear abrasion and weather resistant PVC with high tensile synthetic yarn reinforcement.	Good for both suction and discharge applications, this heavy duty hose can be used for rental/construction pumping as well as fish suction hose.	40 - 110 PSI 28 - 29" HG	2" - 10"	-23ºC to +65ºC -10ºF to +150ºF
Saturn White PVC Water Suction and Discharge Hose	Clear abrasion and weather resistant PVC with white helix.	An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Can also be used in air seeder applications.	35 - 90 PSI	3/4" - 8"	-20ºC to +65ºC -4ºF to +150ºF

HOSE INFORMATION
HOSE ACCESSORIES

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Water Suction *- Also Available: EPDM Aggie Water S & D*					
EPDM Water Suction	Green polypropylene and Black EPDM.	Agricultural suction, general industrial use where high working pressures are not required.	22 - 50 PSI 29" HG	1 1/2" - 6"	-40ºC to +60ºC -40ºF to +140ºF
Steam *- Also Available: Textile Steam*					
Steam 250	Red, heat, weather and abrasion resistant EPDM synthetic rubber tube and cover.	An extremely flexible steel reinforced hose for use with saturated steam at pressures to 250 PSI.	250 PSI	1/2" - 3"	-40ºC to +210ºC -40ºF to +406ºF
CB Steam 250	Red abrasion resistant EPDM cover with Chlorobutyl synthetic rubber tube.	An extremely flexible steel reinforced hose for use with saturated steam at pressures to 250 PSI.Chlorobutyl tube has a low permeation factor resulting in resistance to popcorning of tube.	250 PSI	1/2" - 2"	-40ºC to +210ºC -40ºF to +406ºF
Petroleum *- Also Available: Agricultural Farm Tank, Tank Truck Drop, SAE100R4, W187 Vapour Recovery & Hot Tar & Asphalt*					
Tank Truck	Black, abrasion, gasoline and oil resistant synthetic rubber with blue stripe.	An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic return line and suction.	150 PSI 29" HG	3/4" - 6"	-35ºC to +93ºC -30ºF to +200ºF
Super Black 250	Black, abrasion, gasoline and oil resistant synthetic rubber with blue stripe and pressure.	An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions up to 250 PSI. May also be used as hydraulic return line and suction.	250 PSI	2" - 6"	-35ºC to +93ºC -30ºF to +200ºF
LW Arctic Superflex 150 Petroleum	Blue weather and oil resistant synthetic rubber specially compounded for arctic service. Corrugated with white stripe.	Specially designed to remain flexible while handling a wide range of petroleum products, including gasoline and diesel under arctic conditions.	150 PSI	1 1/2" - 6"	-54ºC to +90ºC -65ºF to +195ºF
H.O.T Oil Tank Truck	Black, abrasion and oil resistant synthetic rubber with red stripe.	Specially designed for conveying hot oil and/or Glycol at temperatures up to 120ºC (250ºF).	150 PSI	2" - 4"	up to +120ºC 250ºF
LW Petroleum Tank 150	Black, abrasion, gasoline and oil resistant synthetic rubber with green stripe.	An all purpose lightweight and flexible petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic return line and suction.	150 PSI	2" - 6"	-40ºC to +93ºC -40ºF to +200ºF
Petroleum Discharge	Red, heat, oil and weather resistant Neoprene cover with nitrile tube.	For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions.	150 - 200 PSI	3/4" - 4"	-35ºC to +88ºC -30ºF to +190ºF
Petroleum Discharge 250	Black, heat, oil and weather resistant Neoprene.	For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions.	250 PSI	2" - 6"	-35ºC to +88ºC -30ºF to +190ºF
Petroleum Drop Hose	Orange PVC helix with high tensile synthetic yarn reinforcement and built in static wire.	For use as a tank truck gravity drop hose. Also for use with oil, fuel and grease transfer, oil slurry, hydrocarbons and animal fat handling. Features an external helix that protects the hose cover as well as enabling the hose to slide over rough surface.	65 - 70 PSI 28" HG	2" - 4"	-29ºC to +65ºC -20ºF to +150ºF

HOSE INFORMATION
HOSE ACCESSORIES

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Petroleum - *Also Available: Agricultural Farm Tank, Tank Truck Drop, SAE100R4, W187 Vapour Recovery & Hot Tar & Asphalt*					
 **Urethane Bio-Drop Fuel Hose**	Green PVC Helix with polyurethane cover. BDROP is clear wall for flow visibility and BDROPB is black with added UV resistance.	For use as a tank truck gravity drop hose with biofuel, gasoline, diesel and ethanol. Lightweight and flexible with exposed pvc helix making it very user friendly.	65 PSI	3" - 4"	-40ºC to +65ºC -40ºF to +150ºF
Vapour Thane Dust & Vapour Recovery Hose	Convoluted yellow helix.	Vapour recovery from petroleum transfer operations. Embedded static wire serves to dissipate static electricity. NOT SUITABLE FOR CONVEYING LIQUIDS	9 - 17 PSI	2" - 4"	-40ºC to +65ºC -40ºF to +150ºF
Material Handling - *Also Available: Tan Bulkmaster, Furnace Door Cooling, Concrete Boom, Concrete Placement & Bulkmaster Hardwall*					
Aztec	Thick black corrugated abrasion and weather resistant synthetic blend cover. Red 3/8" thick super abrasion resistant natural rubber tube.	Primarily designed for handling abrasive slurries in mines and quarries. Can also be used for dry material handling of sand, gravel, grain, slag, and other such materials. External re-usable bolt on flanges allow for ease of installation, and uninterrupted free flow.	150 PSI 30" HG	3" - 12"	-40ºC to +80ºC -40ºF to +180ºF
Bulkmaster Softwall	Black abrasion and weather resistant synthetic rubber cover with black abrasion resistant natural rubber tube. Green stripe on 1/4" thick tube.	Dry bulk discharge including limestone, ground silica, chalk, dry cement, fertilizer etc. May also be used for wet abrasive applications.	75 PSI	3" - 6"	-30ºC to +80ºC -25ºF to +180ºF
Sandblast	Black static conductive synthetic rubber cover with thick black static conductive abrasion resistant natural rubber tube.	For conducting sand, steel shot, and other abrasives for blast cleaning.	150 PSI	1/2" - 3"	-35ºC to +80ºC -30ºF to +180ºF
Industrial Vacuum	Black weather and abrasion resistant cover with black abrasion resistant pure gum rubber tube.	For handling abrasive dust from wood, metal, rock, marble and concrete grinding machines under vacuum.	40 PSI 10 - 24" HG	1" - 6"	-30ºC to +80ºC -25ºF to +180ºF
Chemical - *Also Available: Hypalon Acid S & D, Viton Lined S & D, EPDM Acid S & D*					
Chemical	Green smooth chemical resistant EPDM rubber cover with cross-linked polyethylene tube.	The cross-linked polyethylene tube makes this one of the most versatile types of hose available to the chemical industry today. It will handle 90% of known chemical and petroleum products in both suction and discharge applications.	200 PSI 29" HG	1/2" - 4"	-29ºC to +120ºC -20ºF to +248ºF
Flexchem	Green corrugated chemical resistant EPDM rubber with FDA UHMW polyethylene tube.	Similar to Chemical hose above but may be used at lower temperatures. More versatile than our Chemical hose, Flexchem handles 98 per cent of known chemicals and can be steam cleaned. Corrugated cover results in a more flexible hose.	200 PSI 29" HG	3/4" - 4"	-40ºC to +65ºC -40ºF to +150ºF
Material Handling Polyurethane and PVC - *Also Available: Grey PVC Vacuum*					
B Flex/B Flex Static	Corrugated clear PVC rigid helix. FDA, 3A and USDA compliant.	Conveying of dry powders, grains and plastic pellets where viewing the product is important. B Flex Static has built-in static wire.	25 - 45 PSI 29" HG	1 1/2" - 3" and 39mm	-23ºC to +65ºC -10ºF to +150ºF
Neptune Suction/Neptune Static Suction	Corrugated clear PVC with clear rigid PVC helix. FDA, 3A and USDA compliant.	Suction and discharge of liquids, grains, plastic pellets and powders where moderate abrasion is a factor. Netptune Static has built-in static wire.	20 - 55 PSI 29" HG	1" - 8"	-23ºC to +65ºC -10ºF to +150ºF

Other Hoses Available*: Auto Heater Hose, Marine Hardwall/Softwall/Fuel Fill Hose, Silicone Coolant and Heater Hose. Garage Exhaust Hose, Welding Hose, Pressure Washer Hose, Paint Spray Hose, Auto Fuel Line Hose.*

HOSE INFORMATION
HOSE ACCESSORIES

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Material Handling Polyurethane and PVC *- Also Available: Grey PVC Vacuum*					
PU Vac/PU Vac Lite/PU Vac Static	Corrugated clear abrasion and weather resistant Polyurethane with grey PVC helix. FDA, 3A and USDA compliant.	Ideal for applications where conventional rubber or PVC hose will wear rapidly, i.e. grain transfer, abrasive powder recovery, leaf collection. PU Vac Static has built-in static wire.	3 - 50 PSI 29" HG	1 1/2" - 6"	-40ºC to +65ºC -40ºF to +150ºF
ARI HD	Blue HMW PVC up to 5" I.D. Black cover in 6" and 8" I.D	Used in a variety of material handling application where a good resistance to abrasion is required, such as transfer of sands, plastic pellets, gravel, wood chips, slurries and fly ash. Also for use on vacuum excavation trucks. Cover is a specially formulated static dissapative compound with low temperature flexibility.	30 - 45 PSI 28 - 29" HG	2" - 8"	-40ºC to +65ºC -40ºF to +150ºF
ARI	This hose has a polyurethane tube with an HMC cover. Cover is a specially formulated technical alloy that makes this hose antistatic.	Used in a variety of material handling application where a good resistance to abrasion is required, such as transfer of sands, plastic pellets, gravel, wood chips, slurries and fly ash.	30 - 45 PSI 29" HG	2" - 8"	-40ºC to +65ºC -40ºF to +150ºF
Food *- Also Available: Pure Gum Tubing, Polyethylene Tubing & Clear Vinyl Tubing*					
Bacco	Smooth clear, food grade PVC non-marking with red rigid PVC helix. FDA, 3A and USDA compliant.	Alcoholic beverages up to 25% alcohol content. Fruit juices, soft drinks and other liquid foodstuffs. Also suitable for dry bulk foodstuffs.	35 - 85 PSI 29" HG	3/4" - 5" and 38 - 50mm	-23ºC to +65ºC -10ºF to +150ºF
Brewers and Beverage Discharge	Red abrasion resistant natural rubber tube and cover.	Will handle a wide range of non fatty-oily food products up to 80ºC where taste and aroma must not be affected.	140 PSI	3/4" - 3"	-35ºC to +80ºC -30ºF to +180ºF
Wirevac	Smooth clear PVC with wire helix. Super Wirevac has additional layer of fabric reinforcement. FDA, 3A, USDA and NSF-51 compliant.	An extremely flexible transparent hose for use where full vacuum performance is required while monitoring the contents of the hose. Ideal for use with most food-stuffs, cosmetics, beverages, and a wide range of chemical solutions. Also suitable for lubricating oils and animal fats.	45 - 250 PSI 28" HG	3/8" - 3"	-10ºC to +65ºC +15ºF to +150ºF
Foodflex PVC S & D	Clear PVC non-marking. FDA, 3A and USDA compliant.	For dry bulk foodstuffs, pharmaceuticals, cosmetics, milk, fruit and vegetable juices, soft drinks, alcoholic beverages, flour, sugar etc. Clear wall allows visual inspection of the product.	50 - 85 PSI 29" HG	3/4" - 4"	-23ºC to +65ºC -10ºF to +150ºF
Foodflex Textile Reinforced S & D (Food Grade)	Clear PVC non-marking with high tensile yarn reinforcement. FDA, 3A and USDA compliant.	For liquid or dry bulk foodstuffs, pharmaceuticals, cosmetics, milk, fruit and vegetable juices, soft drinks, alcoholic beverages, flour, sugar, poultry or meat packing etc. Clear wall allows visual inspection of the product.	60 - 110 PSI 28 - 29" HG	2" - 8"	-23ºC to +65ºC -10ºF to +150ºF

AIR & GENERAL PURPOSE HOSE

HOSE ACCESSORIES

CLEAR REINFORCED PVC (FOOD QUALITY)

APPLICATION:An economical hose for handling air, water, oil, mild chemicals, and alkalis. Clear wall allows visual inspection of product. COVER:Clear smooth PVC REINFORCEMENT:Multiple layers of synthetic yarns TUBE:Clear smooth PVC
TEMPERATURE:-5C to +65C(+25F to +150F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
CRPVC-019	3/16	0.38	250	300	0.05	----
CRPVC-025	1/4	0.43	250	300	0.07	----
CRPVC-025-100	1/4	0.43	250	100	0.07	----
CRPVC-031	5/16	0.53	300	300	0.08	----
CRPVC-031-100	5/16	0.53	300	100	0.08	----
*CRPVC-038	3/8	0.59	250	300	0.09	----
CRPVC-038-100	3/8	0.59	250	100	0.09	----
*CRPVC-050	1/2	0.71	250	300	0.15	----
*CRPVC-050-100	1/2	0.71	250	100	0.15	----
CRPVC-063	5/8	0.87	200	200	0.17	----
CRPVC-063-100	5/8	0.87	200	100	0.17	----
CRPVC-075	3/4	1.02	180	200	0.23	----
CRPVC-075-100	3/4	1.02	180	100	0.23	----
*CRPVC-100	1	1.30	150	200	0.32	----
*CRPVC-100-100	1	1.30	150	100	0.32	----
CRPVC-125	1-1/4	1.61	100	100	0.58	----
CRPVC-150	1-1/2	1.89	85	100	0.69	----
CRPVC-200	2	2.44	65	100	1.00	----

Standard Length: 3/16"-3/4" 100'/300' coil, 1" 100'/200' coil, 1-1/4"-2" 100' coil
Product Info: Compliant with the applicable requirements and standards of FDA USDA 3-A and NSF-51. Please specify length when ordering i.e. 100' or 300'
Safety Info: Working pressure ratings are based on 20C (68F). At operating temperature of +65C (150F) reduce working pressure by 50%. Recommended Couplings: Combination nipples, short shank, brass barbed, cam and groove. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

AIR & GENERAL PURPOSE HOSE

HOSE ACCESSORIES

HOT AIR BLOWER HOSE

APPLICATION:FOR CONVEYING HOT AIR FROM BLOWER TO TANK ON DRY BULK TRUCKS.
COVER:Black heat and weather resistant EPDM rubber.
REINFORCEMENT:High tensile wire helix embedded between layers of heat resistant synthetic fabric.
TUBE:Black specially compounded heat resistant EPDM rubber.
TEMPERATURE:-40C to +163C(-40F to +350F)

PART #	NOM. ID"	NOM. OD"	PSI	BEND RADIUS	STD PACK	WEIGHT#	
*BLOW150-300	3	3.62	150	12.00	100	1.75	----
*BLOW150-400	4	4.65	150	15.00	100	2.40	----

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipples or short shank. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

JACKHAMMER - AIR

APPLICATION:AN ECONOMICAL AIR HOSE FOR JACKHAMMER AND OTHER USES ON CONSTRUCTION SITES. ALSO FOR GENERAL INDUSTRIAL USE
COVER:Red smooth cut and abrasion resistant REINFORCEMENT:Multiple layers of synthetic yarn
TUBE:Synthetic oil mist resistant
TEMPERATURE:-35C to +80C(-30F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	COLOR	
JACK-075-50	3/4	1.14	300	50	0.40	Yellow	----
JACK-075R-50	3/4	1.14	300	50	0.40	Red	----
JACK-075G-50	3/4	1.14	300	50	0.40	Green	----
JACK-075BL-50	3/4	1.14	300	50	0.40	Blue	----
JACK-075-CUASSP*	3/4"	1.14	300	50	0.40	Red	----

Standard Length: 50'
Recommended Couplings: High Pressure, mine stem and nut, Universal quick acting. Crimplok universals. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

* C/W CRIMP UNIVERSAL ASSEMBLED

AIR & GENERAL PURPOSE HOSE

HOSE ACCESSORIES

EPDM GENERAL PURPOSE 300

APPLICATION:Air, water, agricultural spray solutions, and other dilute chemicals Excellent resistance to heat and weathering Also resists animal fats, vegetable oils.
COVER:Smooth red abrasion and weather resistant EPDM synthetic rubber
REINFORCEMENT:Multiple layers of synthetic yarn TUBE:Synthetic oil mist resistant EPDM synthetic rubber
TEMPERATURE:-30C to +93C(-20F to +200F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
*GPE-025-300	1/4	0.55	300	300	0.14	----
*GPE-038-300	3/8	0.70	300	300	0.20	----
*GPE-050-300	1/2	0.87	300	300	0.27	----
*GPE-063-300	5/8	0.98	300	300	0.31	----
GPE-075-300	3/4	1.16	300	300	0.44	----
* GPE-100-300	1	1.42	300	300	0.59	----

Standard Length: 300'
Recommended Couplings: High Pressure, Short shank, universal, or Combination nipples all other sizes. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PREMIUM GENERAL PURPOSE NON CONDUCTIVE WITH REEL

APPLICATION: A premium quality long length hose for petroleum based fluids, lubricating oils, air, hot water and some chemical solutions.
COVER: Red, oil, grease, weather and abrasion resistant nitrile.
REINFORCEMENT: Multiple layers of synthetic yarn
TUBE: Black oil resistant nitrile rubber
TEMPERATURE: -32C to +85C(-25F to +185F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
PREMR-038-300	3/8	0.67	300	300	0.17	----
PREMR-050-300	1/2	0.79	300	300	0.21	----
PREMR-075-300	3/4	1.14	300	300	0.39	----
PREMR-100-300	1	1.42	300	300	0.51	----
PREM-125-250	1-1/4	1.77	300	200	0.70	----

Standard Length: 1/4"- 1" 50'/100'/300'. 1-1/4" - 2" 50'/100'.
Recommended Couplings: High Pressure 1"to 1-1/2" for air service if the working pressure exceeds 150 psi. High Pressure, Short shank, universal, or Combination nipples all other sizes. Crimplok universals. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PUSH-ON BLACK

APPLICATION:Transmission of most petroleum-based hydraulic fluids, mineral oil, diesel fuel, engine coolant solutions, agricultural sprays and a wide range of chemical solutions. Also suitable for air and water service
COVER:Black, oil, weather and abrasion resistant Neoprene.
REINFORCEMENT:Multiple layers of polyester yarns.
TUBE:Black oil resistant nitrile rubber.
TEMPERATURE:-32C to +80C(-25F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
PON-025-B	1/4	0.50	250	700'	0.10	----
PON-038-B	3/8	0.63	250	700'	0.14	----
PON-050-B	1/2	0.75	250	700'	0.17	----
PON-063-B	5/8	0.91	250	700'	0.19	----
PON-075-B	3/4	1.03	250	500'	0.19	----

Standard Length: Supplied on reels
Recommended Couplings: Push-on

MARINE EXHAUST HARDWALL

APPLICATION:Marine exhaust applications, and other general applications where non-standard sizes are specified. Meets SAEJ 2006 R1
COVER:Black heat and weather resistant synthetic rubber with blue identification stripe.
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black heat resistant rubber specially compounded for wet marine exhaust service.
TEMPERATURE:-40C to +100C(-40F to +212F)

PART #	NOM. ID"	NOM. OD"	STD PACK	WEIGHT#	
MXH-238	2-3/8	2.68	100'	1.98	----
MXH-250	2-1/2	2.81	100'	1.82	----
MXH-300	3	3.54	100'	2.12	----
MXH-350	3-1/2	4.09	100'	2.77	----
MXH-400	4	4.57	100'	3.22	----
MXH-500	5	5.55	100'	3.59	----

Standard Length: Supplied on reels
Recommended Couplings: Push-on

MATERIAL HANDLING
HOSE ACCESSORIES

FUEL LINE

APPLICATION:Fuel and vapour emission lines, meets SAE 30R7 specification and is USCG Type B and BIA approved.
COVER:Black heat and fuel resistant Hypalon.
REINFORCEMENT:Two layers of synthetic yarns.
TUBE:Black fuel resistant nitrile rubber.
TEMPERATURE:-40C to +120C(-40F to +250F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
FUEL-025	1/4	0.49	50	300'	0.10	----
FUEL-031	5/16	0.58	50	300'	0.13	----
FUEL-038	3/8	0.63	50	300'	0.13	----

Cut Lengths: Plus 5%
Standard Length: 300' coils:
Recommended Couplings: Barbed short shank, combination nipples.

ARI SUCTION

APPLICATION:Used in a variety of material handling application where a good resistance to abrasion is required, such as transfer of sands, plastic pellets, gravel, wood chips, slurries and fly ash. Cover is a specially formulated static dissapative compound with low temperature flexibility.
COVER:Black HMW PVC
REINFORCEMENT:Anti shock rigid pvc helix
TUBE:Polyurethane
TEMPERATURE:-40C to +65C(-40F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
ARI-300	3	3.65	29	40	4.00	100'	1.18	----
ARI-400	4	4.76	29	35	6.00	100'	1.95	----
ARI-600	6	6.80	28	30	12.00	100'	3.51	----

Standard Length: 100'
Safety Info: Suction and pressure ratings are based on a temperature of 20C (68F), reduce ratings by 50% at maximum working temperature. This
hose has no fabric reinforcement and normally should not be used under pressure for service at temperatures above 25C (75F).
Recommended Couplings: Cam and groove

BULKMASTER SOFTWALL

APPLICATION:Dry bulk discharge including limestone, ground silica, chalk, dry cement, fertilizer etc. May also be used for wet abrasive applications.
COVER:Black abrasion and weather resistant synthetic rubber.
REINFORCEMENT:Multiple layers of high tensile synthetic cords.
TUBE:Black abrasion resistant ant-static natural rubber in 1/8", 3/16" and 1/4"
TEMPERATURE:-30C to +80C(-25F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
BSB-400-187	4	4.64	75	100'	2.33	----
BSB-400-250	4	4.72	75	100'	2.65	----
BSB-450-125	4-1/2	5.00	75	100'	2.09	----
BSB-500-187	5	5.63	75	100'	2.75	----
BSB-500-250	5	5.79	75	100'	3.50	----
BSB-600-250	6	6.81	75	100'	4.29	----

Standard Length: 100'
Product Info: Longer lengths available, check for price and availability
Recommnded Couplings: Cam and groove. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

INDUSTRIAL VACUUM HEAVY DUTY LENGTHS

APPLICATION:For handling abrasive dust from wood, metal, rock, marble and concrete grinding machines under vacuum.
COVER:Black abrasion resistant rubber, corrugated for flexibility.
REINFORCEMENT:A high tensile steel helix embedded between layers of textile cords.
TUBE:1/4" or 1/8" red Pure Gum abrasion resistant rubber standard.
TEMPERATURE:-30C to +80C(-25F to +180F)

PART #	ASSEMBLY DESCRIPTION	NOM. OD"	VACUUM	PSI	BEND RADIUS"	WEIGHT#	
IVB-800-250RPG2	8"x25' H.D.IND VAC. 1/4" Red w/cuffs	9.01	28	50	30.00	190.00	----
IVB-800-250RPG3	8"x32' H.D.IND VAC. 1/4" Red w/cuffs	9.01	28	50	30.00	243.80	----
IVB-800-250RPG7	8"x70' H.D.IND VAC. 1/4" Red Tube	9.01	28	50	30.00	716.10	----

MATERIAL HANDLING
HOSE ACCESSORIES

SANDBLAST

APPLICATION:For conducting sand, steel shot, and other abrasives for blast cleaning.
COVER:Black static conductive synthetic rubber.
REINFORCEMENT:Two (SBB) or Four (SBB4) layers of synthetic textile cords.
TUBE:Thick black static conductive abrasion resistant natural rubber.
TEMPERATURE:-35C to +80C(-30F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
SBB-075-100	3/4	1.50	150	100'	0.68	----
SBB-075-50	3/4	1.50	150	50'	0.68	----
SBB-125-100S	1-1/4	2.16	150	100'	1.22	----
SBB-125-50S	1-1/4	2.16	150	50'	1.22	----
SBB-150-50	1-1/2	2.36	150	50'	1.36	----
SBB-300	3	3.98	150	100'	2.57	----

Standard Length: 50'/100'
Product Info: Longer lengths available up to 200'. Surcharges may apply
Recommended Couplings: Sandblast

EPDM WATER SUCTION

APPLICATION:For use in liquid waste suction application. Also for use with liquid or dry chemcial suction applications or general industrial use where high working pressures are not required.
COVER:Green Polyethylene helix and specially formulated rubber.
REINFORCEMENT:Rigid green Polyethylene helix.
TUBE:Smooth specially formulated rubber
TEMPERATURE:-40C to +60C(-40F to +140F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
EPDM-150	1-1/2	1.85	29	50	3.50	100'	0.40	----
EPDM-200	2	2.44	29	50	5.50	100'	0.67	----
EPDM-300	3	3.52	29	42	7.50	100'	1.10	----
EPDM-400	4	4.61	29	38	12.00	100'	1.84	----

Standard Length: 100'
Recommended Couplings: Cam and groove or short shank, Crimplok camd and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

FLEXLITE UHMW

APPLICATION:The (UHMW) Ultra High Molecular Weight polyethylene tube makes this one of the most versatile types of hose available to the chemical industry today. It will handle 94% of common chemical and petroleum products in both suction and discharge applications.This hose is very flexible due to its corrugated cover and low temperature characteristics. This hose can also be used in dry food applications due to its FDA Compliant tube.
COVER:Green corrugated chemical resistant EPDM rubber
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Smooth chemical resistant (UHMW) Ultra High Molecular Weight polyethylene FDA Compliant tube
TEMPERATURE:-40C to +100C(-40F to +212F) Can be open end steam cleaned to 120C or 248F for 30 minutes

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
FLX-075	3/4	1.22	29	200	2.00	100'	0.40	----
FLX-100	1	1.46	29	200	2.50	100'	0.47	----
FLX-150	1-1/2	2.01	29	200	3.75	100'	0.80	----
FLX-200	2	2.52	29	200	5.00	100'	1.00	----
FLX-300	3	3.58	29	200	7.50	100'	1.74	----
FLX-400	4	4.64	29	150	10.00	100'	2.48	----

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose.

FLEXCHEMS

APPLICATION:The (UHMW) Ultra High Molecular Weight polyethylene tube makes this one of the most versatile types of hose available to the chemical industry today. It will handle 94% of common chemical and petroleum products in both suction and discharge applications.This hose is very flexible due to its corrugated cover and low temperaqture characteristics. This hose can also be used in dry food applications due to its FDA Compliant tube.
COVER:Green chemical resistant EPDM rubber
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Smooth chemical resistant (UHMW) Ultra High Molecular Weight polyethylene FDA Compliant tube
TEMPERATURE:-40C to +100C(-40F to +212F) Can be open end steam cleaned to 120C or 248F for 30 minutes

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
FLXS-100	1	1.46	29	200	4.00	100'	0.62	----
FLXS-200	2	2.60	29	200	6.00	100'	1.14	----
FLXS-300	3	3.62	29	200	8.00	100'	2.26	----
FLXS-400	4	4.65	29	200	12.00	100'	3.25	----

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PETROLEUM STEAM AND CHEMICAL HOSE
HOSE ACCESSORIES

FLEXLITE PETROLEUM TANK 150

APPLICATION:An all purpose lightweight and flexible petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic suction and return line.
COVER:Black corrugated, abrasion, gasoline and oil resistant synthetic rubber with green stripe.
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black nitrile rubber for maximum oil resistance.
TEMPERATURE:-40C to +93C(-40F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
TTD150-200	2	2.53	29	150	4.00	100'	1.44	----
TTD150-300	3	3.62	29	150	6.00	100'	2.48	----
TTD150-400	4	4.72	29	150	9.00	100'	3.63	----

Standard Length: 100'
Product Info: Longer lengths available on request. Please check for availability and pricing
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

TANK TRUCK 150

APPLICATION: An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic suction and return line.
COVER:Black, abrasion, gasoline and oil resistant synthetic rubber with red stripe and pressure.
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black nitrile rubber for maximum oil resistance.
TEMPERATURE:-35C to +93C(-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
TLBS150-100	1	1.42	29	150	3.00	100	0.57	----
TLBS150-150	1-1/2	1.93	29	150	4.00	100	0.81	----
TLBS150-200	2	2.52	29	150	4.50	100	1.38	----
TLBS150-300	3	3.54	29	150	7.00	100	2.19	----
TLBS150-400	4	4.68	29	150	10.00	100	3.56	----
TLBS150-600	6	6.89	29	150	21.00	100	6.65	----

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

TANK TRUCK

APPLICATION:An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic suction and return line.
COVER:Black, abrasion, gasoline and oil resistant synthetic rubber with blue stripe and pressure
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black nitrile rubber for maximum oil resistance.
TEMPERATURE:-35C to +93C(-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
TLB-075	3/4	1.14	29	150	3.00	100'	0.43	----
TLB-100	1	1.42	29	150	3.00	100'	0.57	----
TLB-125	1-1/4	1.65	29	150	3.50	100'	0.62	----
TLB-150	1-1/2	1.93	29	150	4.00	100'	0.81	----
TLB-200	2	2.52	29	150	4.50	100'	1.38	----
TLB-250	2-1/2	2.99	29	150	4.75	100'	1.72	----
TLB-400	4	4	29	150	10.00	100'	3.56	----
TLB-600	6	6	29	150	21.00	100'	6.65	----

OIL VACUUM - SMOOTH

APPLICATION:An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic suction and return line.
COVER:Black, abrasion, gasoline and oil resistant synthetic rubber with red stripe and pressure.
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black nitrile rubber for maximum oil resistance.
TEMPERATURE:-35C to +93C(-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
OILVS-150	1-1/2	1.89	29	150	4.00	100	0.75	----
OILVS-200	2	2.43	29	150	4.50	100	1.07	----
OILVS-300	3	3.47	29	150	7.00	100	1.78	----
OILVS-400	4	4.52	29	150	10.00	100	2.58	----
OILVS-600	6	6.60	29	150	21.00	100	5.50	----

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PETROLEUM STEAM AND CHEMICAL HOSE

HOSE ACCESSORIES

TANK TRUCK 300

APPLICATION:An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions up to 300 PSI. May also be used as hydraulic suction and return line.
COVER:Black, abrasion, gasoline and oil resistant synthetic rubber with red stripe and pressure
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black nitrile rubber for maximum oil resistance.
TEMPERATURE:-35C to +93C(-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
TLBS300-200	2	2.62	29	300	5.00	100'	1.43	----
TLBS300-300	3	3.67	29	300	7.00	100'	2.20	----
TLBS300-400	4	4.71	29	300	10.00	100'	3.63	----
TLBS300-600	6	6.91	29	300	21.00	100'	6.90	----

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

OIL VACUUM CORRUGATED

APPLICATION:Designed for transferring petroleum waste, sediments, sludge, diluted mild chemicals, brine and water in oil field tank and waste pit recovery applications, not suitable for refined petroleum products or high concentrations of chemicals
COVER:Black, corrugated abrasion oil resistant synthetic rubber with blue stripe and pressure
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black synthetic rubber for maximum oil resistance.
TEMPERATURE:-35C to +93C(-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
OILVC-200	2	2.44	29	150	4.00	100'	0.89	----
OILVC-300	3	3.46	29	150	6.00	100'	1.42	----
OILVC-400	4	4.52	29	150	9.00	100'	2.44	----

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

FRACLINE 400

APPLICATION:For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions. Specifically designed for use in Frac service.
COVER:Black, heat, oil and weather resistant Neoprene.
REINFORCEMENT:Multiple layers of synthetic textile cords, with static wire.
TUBE:Black, heat and oil resistant synthetic rubber.
TEMPERATURE:-35C to +88C(-30F to +190F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
FRAC400-300	3	3.65	400	100'	1.80	----
FRAC400-400	4	4.80	400	100'	2.81	----
FRAC400-600	6	6.80	400	100'	5.20	----

Standard Length: 100'
Recommended Couplings: Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PETROLEUM DISCHARGE

APPLICATION:For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions.
COVER:Red, heat, oil and weather resistant Neoprene.
REINFORCEMENT:Multiple layers of synthetic textile cords, with static wire.
TUBE:Black, heat and oil resistant synthetic rubber.
TEMPERATURE:-35C to +88C(-30F to +190F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
PDR-125	1-1/4	1.69	150	100'	0.58	----
PDR-150	1-1/2	1.97	150	100'	0.78	----
PDR-300	3	3.50	150	100'	1.64	----
PDR-400	4	4.57	150	100'	2.46	----
PDR-600	6	6.72	150	100'	3.89	----

Standard Length: 50'/100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference.

PETROLEUM STEAM AND CHEMICAL HOSE
HOSE ACCESSORIES

PETROLEUM DISCHARGE 250

APPLICATION:For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions. Specifically designed for use in Frac service.
COVER:Black, heat, oil and weather resistant Neoprene.
REINFORCEMENT:Multiple layers of synthetic textile cords, with static wire.
TUBE:Black, heat and oil resistant synthetic rubber.
TEMPERATURE:-35C to +88C(-30F to +190F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
PDB250-200	2	2.50	250	100'	1.14	----
PDB250-300	3	3.54	250	100'	1.80	----
PDB250-400	4	4.64	250	100'	2.81	----
PDB250-600	6	6.69	250	100'	5.20	----

Standard Length: 50'/100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

HOT TAR AND ASPHALT

APPLICATION:Specially designed for conveying hot tar and asphalt at temperatures up to 160 C (350 F).
COVER:Black Neoprene synthetic rubber.
REINFORCEMENT:High tensile wire helix embedded between multiple layers of heat resistant synthetic yarns
TUBE:Specially compounded heat resistant synthetic rubber compound.
TEMPERATURE:up to +177C(350F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
HTA-300	3	3.77	150	100'	2.94	----
HTA-400	4	4.85	150	100'	4.20	----

Standard Length: 100'
Recommended Couplings: Cam and Grove, combination nipple. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PETROLEUM TRANSFER

APPLICATION:For use with oil, fuel and grease transfer, oil slurry, hydrocarbons and animal fat handling. Features an external helix that protects the hose cover as well as enabling the hose to slide over rough surface. Static wire embedded in helix for ease of grounding.
COVER:Orange PVC Helix with built in static wire
REINFORCEMENT:High tensile synthetic textile yarn
TUBE:Specially formulated compound for fuel transfer
TEMPERATURE:-40C to +93C(-40F to +200F)

PART #	NOM. ID"	NOM. OD"	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
FLDROP-200	2	2.87	150	5.00	100'	1.29	----
FLDROP-400	4	5.00	75	12.00	100'	2.51	----

Standard Length: 50'/100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

STEAM 250 BLACK

APPLICATION:An extremely flexible hose for use with saturated steam at pressures to 250 PSI .
COVER:Black abrasion and heat resistant EPDM rubber, with embossed brand and pressure.
REINFORCEMENT:Multiple layers of high tensile steel cords.
TUBE:Black heat resistant EPDM synthetic rubber.
TEMPERATURE:-40C to +210C(-40F to +406F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
ST250B-075-50	3/4	1.26	250	50'	0.48	----
ST250B-100-50	1	1.50	250	50'	0.60	----
ST250B-150-50	1-1/2	2.13	250	50'	1.10	----
ST250B-200-50	2	2.64	250	50'	1.48	----

Standard Length: 50'
Recommended Couplings: High Pressure with interlocking clamps

PETROLEUM STEAM AND CHEMICAL HOSE

HOSE ACCESSORIES

STEAM 250

APPLICATION:An extremely flexible hose for use with saturated steam at pressures to 250 PSI .
COVER:Red abrasion and heat resistant EPDM rubber, with embossed brand and pressure.
REINFORCEMENT:Multiple layers of high tensile steel cords.
TUBE:Black heat resistant EPDM synthetic rubber.
TEMPERATURE:-40C to +210C(-40F to +406F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
ST250-075-50	3/4	1.26	250	50'	0.48	----
ST250-075-100	3/4	1.26	250	100'	0.48	----
ST250-100-50	1	1.50	250	50'	0.60	----
ST250-100-100	1	1.50	250	100'	0.60	----
ST250-200-50	2	2	250	50'	1.48	----
ST250-200-100	2	2	250	100'	1.48	----
ST250-300	3	3	250	100'	3.40	----

Standard Length: 50'/100'
Product Info: Longer lengths available on request. Please check for availability and pricing
Recommended Couplings: High Pressure with interlocking clamps

Work hard for what you want because it won't come to you without a fight. You have to be strong and courageous and know that you can do anything you put your mind to. If somebody puts you down or criticizes you, just keep on believing in yourself and turn it into something positive.

- Leah LaBelle

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

BLUE LAYFLAT

APPLICATION:A LIGHT DUTY LAYFLAT HOSE FOR PORTABLE PUMP AND IRRIGATION USE.
COVER:Blue PVC impregnation. REINFORCEMENT:Woven high tensile synthetic yarns. TUBE:Blue PVC impregnation.
TEMPERATURE:-10C to +55C(15F to +130F)

PART #	NOM. ID"	NOM.OD"	PSI	STD PACK	WEIGHT#	
BLAY-100	1	1.11	150	300	0.13	----
BLAY-125	1-1/4	1.37	130	300	0.15	----
BLAY-150	1-1/2	1.63	70	300	0.15	----
*BLAY-200	2	2.13	65	300	0.20	----
BLAY-250	2-1/2	2.63	65	300	0.27	----
*BLAY-300	3	3.13	60	300	0.33	----
*BLAY-400	4	4.14	60	300	0.46	----
*BLAY-600	6	6.15	35	300	0.78	----

Standard Length: Multiples of 50' up to 300' maximum
Product Info: Please specify length required when ordering, i.e.50', 100'
Safety Info: Reduce pressures by 50% at maximum working temperature
Recommended Couplings: Cam and groove or short shank

BLUE LAYFLAT ASSEMBLY

PART #	ASSEMBLY DESCRIPTION	WEIGHT#	
BLAY-150-CASS	1-1/2" X 50' BLUE LAYFLAT +C/E CAMLOCK	7.00	----
BLAY-200-CASS	2"X50'BLUE LAYFLAT+C/E CAMLOCK	12.20	----
*BLAY-300-CASS	3"X50'BLUE LAYFLAT+C/E CAMLOCK	20.63	----
*BLAY-400-CASS	4"X50'BLUE LAYFLAT+C/E CAMLOCK	29.49	----
BLAY-600-CASS	6"X50'BLUE LAYFLAT+C/E CAMLOCK	51.08	----

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

BROWN LAYFLAT - HEAVY DUTY

APPLICATION:Heavy duty layflat hose for portable pump and irrigation use.
COVER:Brown PVC impregnation.
REINFORCEMENT:Woven high tensile synthetic yarns.
TUBE:Brown heavy PVC impregnation.
TEMPERATURE:-10C to +60C(15F to +140F)

PART #	NOM. ID"	NOM.OD"	PSI	STD PACK	WEIGHT#	
BRLAYHD-200	2	2.15	150	300'	0.26	----
BRLAYHD-300	3	3.19	150	300'	0.52	----
BRLAYHD-400	4	4.27	135	300'	0.74	----
BRLAYHD-600	6	6.26	115	300'	1.21	----

Successful people maintain a positive focus in life no matter what is going on around them. They stay focused on their past successes rather than their past failures, and on the next action steps they need to take to get them closer to the fulfillment of their goals rather than all the other distractions that life presents to them.

- Jack Canfield

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

DURAFLEX - RUBBER LAYFLAT

APPLICATION:SPECIFICALLY MANUFACTURED TO COMPETE WITH OROFLEX IMITATION HOSE. THIS IS A LIGHTWEIGHT HIGH PRESSURE, EXTREMELY STRONG HOSE FOR GENERAL WATER DISCHARGE SERVICE. IDEAL FOR RENTAL SERVICE WHERE LONG LIFE AND
competitive pricing is paramount. Its compact characteristics make this an ideal hose for use with portable pumps. Especially suited for pumping oily contaminated water. COVER:Black abrasion, weather and oil resistant nitrile rubber. REINFORCEMENT:Circular woven synthetic yarns.
TUBE:Black abrasion and oil resistant nitrile rubber.
TEMPERATURE:-20C to +80C(0F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
DURFL-200	2	2.18	200	200	0.31	----
*DURFL-300	3	3.22	175	200	0.59	----
*DURFL-400	4	4.24	150	200	0.65	----
*DURFL-600	6	6.26	150	200	1.10	----

Standard Length: 50'/100'
Product Info: 200 Lengths Will Be Shipped Unless Otherwise Specified On Duraflex
Recommended Couplings: Cam and groove, combination nipples or short shank. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

DURAFLEX - RUBBER LAYFLAT ASSEMBLY

PART #	ASSEMBLY DESCRIPTION	WEIGHT#	
DURFL-200-CASSP	2"x50' DURAFLEX + C/E CAMLOCK	14.20	----
DURFL-300-CASSP	3"x50' DURAFLEX + C/E CAMLOCK	21.63	----
DURFL-400-CASSP	4"x50' DURAFLEX + C/E CAMLOCK	28.99	----
DURFL-600-CASSP	6"x50' DURAFLEX + C/E CAMLOCK	51.67	----

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

HIGH PRESSURE CONTRACTORS WATER DISCHARGE

APPLICATION:For use on construction sites and general water service. High pressure allows pumping against greater vertical heads
COVER:Black abrasion and weather resistant synthetic rubber, with embossed brand and pressure.
REINFORCEMENT:Multiple layers of synthetic yarn.
TUBE:Black synthetic rubber compounded for water service.
TEMPERATURE:-35C to +80C(-30F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
HPCWB-150	1-1/2	1.77	150	100'	0.49	----
HPCWB-200	2	2.28	150	100'	0.48	----
HPCWB-300	3	3.35	150	100'	1.08	----
HPCWB-400	4	4.37	150	100'	1.38	----
HPCWB-600	6	6.46	150	100'	2.62	----

Standard Length: 50'/100'
Recommended Couplings: Cam and groove, combination nipples or short shank. Crimplok camd and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

HIGH PRESSURE WATER DISCHARGE 250

APPLICATION:For use on construction sites and general water service. High pressure allows pumping against greater vertical heads
COVER:Black abrasion and weather resistant synthetic rubber, with embossed brand and pressure.
REINFORCEMENT:Multiple layers of synthetic yarn.
TUBE:Black synthetic rubber compounded for water service.
TEMPERATURE:-35C to +80C(-30F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
HPCWB200-150	1-1/2			100'		----
HPCWB250-200	2	2.40	250	100'	1.15	----
HPCWB250-300	3	3.46	250	100'	1.60	----
HPCWB200-400	4	4.48	200	100'	2.15	----

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipples or short shank. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

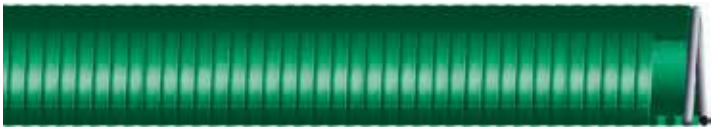
SATURN GREEN PVC WATER S&D

APPLICATION:An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations.
COVER:Clear abrasion and weather resistant PVC.
REINFORCEMENT:Green PVC helix.
TUBE:Smooth clear PVC.
TEMPERATURE:-20C to +65C(-5F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
SATG-075	3/4	0.95	29	90	2.00	100	0.16	----
*SATG-100	1	1.24	29	85	3.00	100	0.26	----
*SATG-125	1-1/4	1.54	29	80	4.00	100	0.34	----
*SATG-150	1-1/2	1.81	29	70	6.00	100	0.44	----
*SATG-200	2	2.29	29	65	5.00	100	0.57	----
SATG-250	2-1/2	2.85	29	60	6.00	100	0.87	----
*SATG-300	3	3.43	29	60	12.00	100	1.21	----
SATG-400	4	4.45	29	50	10.00	100	1.78	----

Standard Length: 100'
Safety Info: Reduce pressures by 50% at maximum working temperature
Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

SATURN OLIVE GREEN PVC WATER S&D



APPLICATION:AN ECONOMICAL, FLEXIBLE HOSE FOR CONSTRUCTION PUMPS, SEPTIC TANK & MARINE PUMP-OUT SERVICE. RESISTANT TO SOME CHEMICALS, MILD ACIDS & ALKALIS. CONSULT US FOR RECOMMENDATIONS.
COVER:Green abrasion and weather resistant PVC.
REINFORCEMENT:Green PVC helix
TUBE:Smooth green PVC
TEMPERATURE:-20C to +65C(-5F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	BEND RADIUS"	STD PACK	WEIGHT#	
*SATO-200	2	2.34	29	5.00	100	0.66	----
*SATO-300	3	3.46	29	12.00	100	1.24	----
SATO-400	4	4.49	29	10.00	100	1.85	----

Standard Length: 100'
Safety Info: Suction and Pressure ratings are based on a temperature of 20C (68F), reduce by 50% at maximum working temperature
Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

SATURN PVC WATER S&D

APPLICATION:An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations. Specially formulated compounds and a slightly corrugated cover allow for increased flexibility at low temperatures.
COVER:Clear abrasion and weather resistant extra soft PVC.
REINFORCEMENT:Blue PVC helix. SAT-XXX-BLK - Black helix
TUBE:Smooth clear extra soft PVC.
TEMPERATURE:-40C to +65C(-40F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
SAT-200	2	2.35	26	35	5.00	100'	0.49	----
SAT-300	3	3.42	24	30	7.50	100'	0.81	----
SAT-400	4	4.50	22	25	10.00	100'	1.52	----
SAT-600	6	6.58	22	21	15.00	100'	2.72	----

Standard Length: 100'
Safety Info: Suction and Pressure ratings are based on a temperature of 20C (68F), reduce by 50% at maximum working temperature Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

SATURN WHITE PVC WATER SUCTION AND DISCHARGE HOSE

APPLICATION:An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations.
COVER:Clear abrasion and weather resistant PVC.
REINFORCEMENT:White PVC helix.
TUBE:Smooth clear PVC.
TEMPERATURE:-20C to +65C(-5F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
SATW-100	1	1.18	29	85	3.00	100'	0.19	----
SATW-125	1-1/4	1.47	29	80	3.00	100'	0.29	----
SATW-150	1-1/2	1.72	29	70	4.00	100'	0.35	----
SATW-200	2	2.29	29	65	5.00	100'	0.57	----
SATW-300	3	3.35	29	55	8.00	100'	1.03	----
SATW-400	4	4.45	29	50	10.00	100'	1.78	----
SATW-600	6	6.56	29	40	24.00	100'	3.70	----

Standard Length: 100'
Safety Info: Suction and Pressure ratings are based on a temperature of 20C (68F), reduce by 50% at maximum working temperature Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

SUPERFLEX PVC SUCTION

APPLICATION:Specially designed for use in the installation of pool, spa and hot tubs. Can also be used in a variety of water transfer applications where flexible lines are needed to replace rigid piping.
COVER:Soft white PVC
REINFORCEMENT:White PVC helix
TUBE:Smooth white PVC
TEMPERATURE:-20C to +65C(-5F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
SUPER-200	2	2.39	29	70	7.00	100'	0.75	----

Standard Length: 100'
Product Info: Our warranty does not cover damage caused by rodents or any insect. Not for underground use in areas infested by termites.
Safety Info: Suction and Pressure ratings are based on a temperature of 20C (68F), reduce by 50% at maximum working temperature
Recommended Couplings: SCH40

RUBBER WATER S&D

APPLICATION:A heavy duty wire reinforced rubber suction hose for construction, quarries and general use.
COVER:Black smooth abrasion and weather resistant synthetic rubber. REINFORCEMENT:High tensile wire helix embedded between layers of textile cords. TUBE:Smooth black synthetic rubber.
TEMPERATURE:-30C to +80C(-22F to +180F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
WSB-125	1-1/4	1.65	29	150	4.00	100	0.77	----
*WSB-150	1-1/2	1.93	29	150	4.00	100	1.00	----
*WSB-200	2	2.48	29	150	5.00	100	1.37	----
*WSB-300	3	3.50	29	150	10.00	100	2.23	----
*WSB-400	4	4.64	29	150	14.00	100	3.73	----
*WSB-600	6	6.66	29	150	30.00	100	5.99	----

Standard Length: 3/4" to 4" - 50'/100' -- 5" and 6" - 20'/100' -- 8" - 20'/60' -- 10" - 40' -- 12" - 20'
Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. Cam and groove,
combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are
derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working
pressure of the lowest rated component in the assembly.

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

TEXTILE REINFORCED S&D

APPLICATION:GOOD FOR BOTH SUCTION AND DISCHARGE APPLICATIONS, THIS HEAVY DUTY HOSE CAN BE USED FOR RENTAL/CONSTRUCTION PUMPING AS WELL AS FISH SUCTION HOSE.
COVER:Clear abrasion and weather resistant PVC. REINFORCEMENT:Orange PVC helix with high tensile synthetic textile yarn. TUBE:Smooth clear PVC.
TEMPERATURE:-23C to +65C(-10F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
*RSPVC -200	2	2.59	29	110	4.00	100	0.65	----
*RSPVC-300	3	3.71	29	100	6.00	100	1.12	----
*RSPVC-400	4	4.78	29	80	7.00	100	1.74	----
*RSPVC-600	6	7.17	28	70	10.50	100	3.87	----

Standard Length: 100'
Safety Info: Reduce pressures by 50% at maximum working temperature
Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

CRIMPLOK

SELF LOCKING
CAM & GROOVE

STAINLESS STEEL &
ALUMINUM

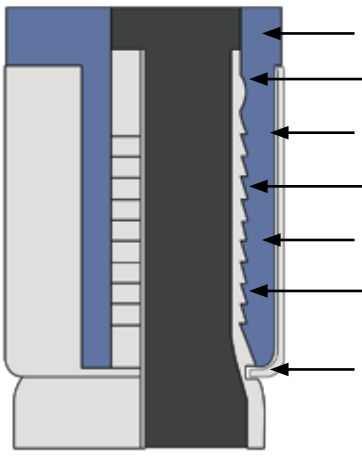
UNIVERSAL FITTINGS

CRIMPLOCK KING NIPPLES

CRIMPLOK FERRULES - PLATED STEEL - STAINLESS STEEL ALUMINUM

SOLID DEPENDABLE SAFE

FEATURES AND BENEFITS



The ferrule is crimped into this groove for hose retention

Crimplok is the best way to ensure a perfect hose connection every time!

- All fittings have a Crimplok groove for the ferrule end the Lok into for a strong permanent seal.
- Serrations on the couplings and fittings are not as sharp at the top, but become sharper towards the Crimplok groove.
- The length of the barb and sleeve/ ferrule are matched for a safer, cleaner connection.
- Crimplok connections do not have sharp clamp buckles or edges
- Interchangeable with most market systems

ALUMINUM SELF LOCKING CAM & GROOVE

- Automatic Self-Locking Arms Prevent Accidental Disconnection
- Machined multi-serrated shank with interlocking groove
- Aluminum with Brass Self Locking Arms
- 316 Stainless with Investment Cast Self-Locking Arms
- Available in sizes 2" through 6"
- 2" @250 psi 3" & 4" @150 psi 6" @75 psi
- 6" @150 psi 4 arms
- Configurations
  - Dust Cap
  - Part B
  - Part C
  - Part D

Sample item code	Description
CDCSL-XXX-A1	X" DUST CAP ALUMINUM CRIMPLOK SELF LOCKING
CGBSL-XXX-A1	X" PART B ALUMINUM CRIMPLOK SELF LOCKING
CGCSL-XXXCR-A1	X" PART C ALUMINUM CRIMPLOK SELF LOCKING
CGDSL-XXX-A1	X" PART D ALUMINUM PRIMPLOK SELF LOCKING

Designed for use with Buchanan Crimp Sleeves and Interlocking Ferrules

FEMALE COUPLER X MALE NPT TYPE B

CGBSL

PART#	SIZE	
CGBSL-200-A1	2"	----
CGBSL-300-A1	3"	----
CGBSL-400-A1	4"	----
CGBSL-600-A1	6"	----

FEMALE COUPLER X FEMALE NPT TYPE D

CGDSL

PART#	SIZE	
CGDSL-200-A1	2"	----
CGDSL-300-A1	3"	----
CGDSL-400-A1	4"	----
CGDSL-600-A1	6"	----

FEMALE COUPLER X HOSE SHANK TYPE C

CGCSL

PART#	SIZE	
CGCSL-200CR-A1	2"	----
CGCSL-300CR-A1	3"	----
CGCSL-400CR-A1	4"	----
CGCSL-600CR-A1	6"	----
CGCSL-600CR-A4	6" w/4 arms	----

DUST CAP TYPE DC

CDCSL

PART#	SIZE	
CDCSL-200-A1	2"	----
CDCSL-300-A1	3"	----
CDCSL-400-A1	4"	----
CDCSL-600-A1	6"	----

STAINLESS STEEL SELF LOCKING CAM & GROOVE

- Automatic Self-Locking Arms Prevent Accidental Disconnection
- Machined multi-serrated shank with interlocking groove
- Aluminum with Brass Self Locking Arms
- 316 Stainless with Investment Cast Self-Locking Arms
- Available in sizes 2" through 6"
- 2" @250 psi 3" & 4" @150 psi 6" @75 psi
- 6" @150 psi 4 arms
- Configurations
  - Dust Cap
  - Part B
  - Part C
  - Part D

Sample item code	Description
CDCL-XXX-SS1	X" DUST CAP STAINLESS CRIMPLOK 316 SELF LOCKING
CGBSL-XXX-SS1	X" PART B STAINLESS CRIMPLOK 316 SELF LOCKING
CGCSL-XXXCR-SS1	X" PART C STAINLESS 316 CRIMPLOK SELF LOCKING
CGDSL-XXX-SS1	X" PART D STAINLESS CRIMPLOK 316 SELF LOCKING

Designed for use with Buchanan Crimp Sleeves and Interlocking Ferrules

FEMALE COUPLER X MALE NPT TYPE B

CGBSL

PART#	SIZE	
CGBSL-200-SS1	2"	----
CGBSL-300-SS1	3"	----
CGBSL-400-SS1	4"	----
CGBSL-600-SS1	6″	----

FEMALE COUPLER X FEMALE NPT TYPE D

CGDSL

PART#	SIZE	
CGDSL-200-SS1	2"	----
CGDSL-300-SS1	3"	----
CGDSL-400-SS1	4"	----
CGDSL-600-SS1	5″	----

FEMALE COUPLER X HOSE SHANK TYPE C

CGCSL

PART#	SIZE	
CGCSL-200CR-SS1	2"	----
CGCSL-300CR-SS1	3"	----
CGCSL-400CR-SS1	4"	----
CGCSL-600CR-SS1	6"	----

DUST CAP TYPE DC

CDCSL

PART#	SIZE	
CDCSL-200-SS1	2"	----
CDCSL-300-SS1	3"	----
CDCSL-400-SS1	4"	----
CDCSL-600-SS1	5″	----

CRIMPLOK
HOSE ACCESSORIES

CRIMPLOK ALUMINUM CAM & GROOVE COUPLINGS

TYPE C

PART#	SIZE	
CGC-150CR-A1	1-1/2"	----
CGC-200CR-A1	2"	----
CGC-250CR-A1	2-1/2"	----
CGC-300CR-A1	3"	----
CGC-400CR-A1	4"	----
CGC-600CR-A1	6"	----
CGC-800CS-A1	8"	----

TYPE E

PART#	SIZE	
CGE-150CR-A1	1-1/2"	----
CGE-200CR-A1	2"	----
CGE-250CR-A1	2-1/2"	----
CGE-300CR-A1	3"	----
CGE-400CR-A1	4"	----
CGE-600CR-A1	6"	----
CGE-800CS-A1	8"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK STAINLESS CAM & GROOVE COUPLINGS

TYPE C

TYPE E

TYPE C

PART#	SIZE	
CGC-100CR-SS1	1"	----
CGC-150CR-SS1	1-1/2"	----
CGC-200CR-SS1	2"	----
CGC-300CR-SS1	3"	----
CGC-400CR-SS1	4"	----

TYPE E

PART#	SIZE	
CGE-100CR-SS1	1"	----
CGE-150CR-SS1	1-1/2"	----
CGE-200CR-SS1	2"	----
CGE-300CR-SS1	3"	----
CGE-400CR-SS1	4"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SS304

CRIMPLOK CRIMP UNIVERSAL FITTINGS

PART#	SIZE	MAX OPERATING PSI 70F	
FHE-075-MP	3/4	150	----
HE-050CF-SP	1/2	150	----
HE-075CF-SP	3/4	150	----
HE-075CR-SP	3/4	150	----
HE-100CF-SP	1	150	----
HE-100CR-SP	1	150	----
HE-101CF-SP	1	150	----

HIGH PRESSURE FEMALE STEM

PART#	SIZE	
GJS-050CR-SP	1/2	----
GJS-075CR-SP	3/4	----
GJS-100CR-SP	1	----
GJS-125CR-SP	1-1/4	----
GJS-150CR-SP	1-1/2	----
GJS-200CR-SP	2	----
GJS-250CR-SP	2-1/2	----
GJS-300CR-SP	3	----
GJS-400CR-SP	4	----

HIGH PRESSURE FEMALE STEM

PART#	SIZE	
GJM-050CR-SP	1/2	----
GJM-075CR-SP	3/4	----
GJM-100CR-SP	1	----
GJM-125CR-SP	1-1/4	----
GJM-150CR-SP	1-1/2	----
GJM-200CR-SP	2	----
GJM-250CR-SP	2-1/2	----
GJM-300CR-SP	3	----
GJM-400CR-SP	4	----

CRIMPLOK KING NIPPLES

HOSE ACCESSORIES

CRIMPLOK CRIMP COMBINATION NIPPLES PLATED STEEL

PART#	SIZE	
*CNT-100CR-SP	1"	----
*CNT-125CR-SP	1-1/4"	----
*CNT-150CR-SP	1-1/2"	----
*CNT-200CR-SP	2"	----
*CNT-250CR-SP	2-1/2"	----
*CNT-300CR-SP	3"	----
*CNT-400CR-SP	4"	----
*CNT-600CR-SP	6"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK CRIMP COMBINATION NIPPLES STAINLESS

PART#	SIZE	
*CNT-100CR-SS316	1"	----
CNT-125CR-SS316	1-1/4"	----
*CNT-150CR-SS316	1-1/2"	----
*CNT-200CR-SS316	2"	----
*CNT-250CR-SS316	2-1/2"	----
*CNT-300CR-SS316	3"	----
*CNT-400CR-SS316	4"	----
*CNT-600CR-SS316	6"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SS304

CRIMPLOK COMBINATION NIPPLE PLATED LONG NPT

PART#	SIZE	
*CNL-200CR-SP	2"	----
*CNL-250CR-SP	2-1/2"	----
*CNL-300CR-SP	3"	----
*CNL-400CR-SP	4"	----

Project Information: For use with CRIMPLOK Long Ferrules CF-XXXXXL-SP

CRIMPLOK HD COMBINATION NIPPLE PLATED

PART#	SIZE	
*CNT-400CS-SP	4"	----
*CNT-600CS-SP	6"	----
*CNT-800CS-SP	8"	----

Project Information: For use with CRIMPLOK Sleeves CSL-XXXXX-SP

CRIMPLOK HD COMBINATION NIPPLE UNPLATED

PART#	SIZE	
*CNT-400CS-S	4"	----
*CNT-600CS-S	6"	----
CNT-800CS-S	8"	----

Project Information: For use with CRIMPLOK Sleeves CSL-XXXXX-SP

CRIMPLOK HD COMBINATION NIPPLE VICTAULIC PLATED

PART#	SIZE	
*CNG-400CS-SP	4"	----
*CNG-600CS-SP	6"	----
*CNG-800CS-SP	8"	----

Project Information: For use with CRIMPLOK Sleeves CSL-XXXXX-SP

CRIMPLOK HD COMBINATION NIPPLE VICTAULIC UNPLATED

PART#	SIZE	
*CNG-400CS-S	4"	----
*CNG-600CS-S	6"	----
*CNG-800CS-S	8"	----

Project Information: For use with CRIMPLOK Sleeves CSL-XXXXX-SP

CRIMPLOK KING NIPPLES
HOSE ACCESSORIES

CRIMPLOK CRIMP VICTAULIC COMBINATION NIPPLES PLATED STEEL

PART#	SIZE	
*CNG-200CR-SP	2"	----
*CNG-300CR-SP	3"	----
*CNG-400CR-SP	4"	----
*CNG-600CR-SP	6"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK CRIMP VICTAULIC COMBINATION NIPPLES STAINLESS

PART#	SIZE	
CNG-200CR-SS316	2"	----
CNG-250CR-SS316	2-1/2"	----
CNG-300CR-SS316	3"	----
CNG-400CR-SS316	4"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SS304

CRIMPLOK FIXED FLANGE NIPPLE STEEL 125 - 150#

PART#	SIZE	
*CNFL-200CR-S	2"	----
*CNFL-300CR-S	3"	----
*CNFL-400CR-S	4"	----
*CNFL-600CR-S	6"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP
Stainless Steel available - add S316 to part #

CRIMPLOK CRIMP TURNBACK COMBINATION NIPPLES STEEL

PART#	SIZE	
*CNTB-200CR-S	2"	----
*CNTB-300CR-S	3"	----
*CNTB-400CR-S	4"	----
*CNTB-600CR-S	6"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK CRIMP TURN BACK NIPPLES STAINLESS

PART#	SIZE	
*CNTB-200CR-SS316	2"	----
*CNTB-300CR-SS316	3"	----
*CNTB-400CR-SS316	4"	----
*CNTB-600CR-SS316	6"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SS304

CRIMPLOK CRIMP SQUARE CUT COMBINATION NIPPLES UNPLATED

PART#	SIZE	
*CNSC-300CR-SP	3"	----
*CNSC-400CR-SP	4"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK FIXED FLANGE NIPPLE STAINLESS STEEL 125 - 150#

PART#	SIZE	
*CNFL-200CR-SS316	2"	----
*CNFL-300CR-SS316	3"	----
*CNFL-400CR-SS316	4"	----
*CNFL-600CR-SS316	6"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK FERRULES PLATED
HOSE ACCESSORIES

CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE - LD FOR UNIVERSAL

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CFT-08106T-SP	3/4	FLPS075112	1.1875"	2.14"	0.04	----
CFT-08107T-SP	3/4	FLPS075114	1.2188"	2.14"	0.04	----
CFT-08108T-SP	3/4	FLPS075116	1.2500"	2.14"	0.04	----
CFT-08109T-SP	3/4	FLPS075118	1.2812	2.14"	0.04	----

Project Information: For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .040"

CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE - HD FOR UNIVERSAL

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-05101S-SP	3/4	FPS050104S	1.0625"	1.41"	0.06	----

Project Information: For use with CRIMPLOK crimp ground joints (GJM/GJS-XXXCR-SP) I.D Tolerance = +/-0.012

CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-08105-SP	3/4	FPS075120	1.3125"	2.14"	0.06	----

Project Information: For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .040"

CRIMPLOK FERRULES STEEL PLATED FOR 1" HOSE - LD FOR UNIVERSAL

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CFT-10114T-SP	1	FLPS100128	1.4375"	2.29"	0.04	----
CFT-10115T-SP	1	FLPS100130	1.4687"	2.29"	0.04	----
CFT-10117T-SP	1	FLPS100134	1.5000"	2.29"	0.04	----
CFT-10118T-SP	1	FLPS100136	1.5312"	2.29"	0.04	----

Project Information: For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .040"

CRIMPLOK FERRULES STEEL PLATED FOR 1" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-10109-SP	1	FPS100136	1.5625"	2.29"	0.06	----
CF-10110-SP	1	FPS100140	1.6250"	2.29"	0.06	----
CF-10111-SP	1	FPS100144	1.6875"	2.29"	0.06	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 1-1/4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-13113-SP	1-1/4	FPS125152	1.8125"	2.32"	0.06	----
CF-13114-SP	1-1/4	FPS125156	1.8750"	2.32"	0.06	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES PLATED

HOSE ACCESSORIES

CRIMPLOK FERRULES STEEL PLATED FOR 1-1/2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-15115-SP	1-1/2	FPS150160	1.9375"	2.36"	0.06	----
CF-15201-SP	1-1/2	FPS150204	2.0625"	2.36"	0.06	----
CF-15202-SP	1-1/2	FPS150208	2.1250"	2.36"	0.06	----
CF-15203-SP	1-1/2	FPS150212	2.1875"	2.36"	0.06	----
CF-15205-SP	1-1/2	FPS150220	2.3125	2.36"	0.06	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 1-1/2" HOSE - LONG

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-15202L-SP	1-1/2	FPS150208L	2.1250"	2.91	0.06	----

Project Information: For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-20208-SP	2	FPS200232	2.5000"	2.79"	0.06	----
CF-20209-SP	2	FPS200236	2.5625"	2.79"	0.06	----
CF-20210-SP	2	FPS200240	2.6250"	2.79"	0.06	----
CF-20211-SP	2	FPS200244	2.6875"	2.79"	0.06	----
CF-20212-SP	2	FPS200248	2.7500"	2.79"	0.06	----
CF-20213-SP	2	FPS200252	2.8125"	2.79"	0.06	----
CF-20214-SP	2	FPS200256	2.8750"	2.79"	0.06	----
CF-20215-SP	2	FPS200260	2.9375"	2.79"	0.06	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 2" HOSE - LONG

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-20209L-SP	2	FPS200236L	2.5625"	3.41"	0.06	----
CF-20211L-SP	2	FPS200244L	2.6875"	3.41"	0.06	----
CF-20212L-SP	2	FPS200248L	2.7500"	3.41"	0.06	----
CF-20213L-SP	2	FPS200252L	2.8125"	3.41"	0.06	----

Project Information: For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 2-1/2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-25303-SP	2-1/2	FPS250312	3.1875"	3.11"	0.06	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 2-1/2" HOSE - LONG

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-25303L-SP	2-1/2	FPS250312L	3.1875"	3.88"	0.06	----

Project Information: For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 3" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-30309-SP	3	FPS300336	3.5625"	3.94"	0.09	----
CF-30310-SP	3	FPS300340	3.6250"	3.94"	0.09	----
CF-30311-SP	3	FPS300344	3.6875"	3.94"	0.09	----
CF-30312-SP	3	FPS300348	3.7500"	3.94"	0.09	----
CF-30313-SP	3	FPS300352	3.8125"	3.94"	0.09	----
CF-30314-SP	3	FPS300356	3.8750"	3.94"	0.09	----
CF-30315-SP	3	FPS300360	3.9375"	3.94"	0.09	----
CF-30400-SP	3	FPS300400	4.000"	3.94"	0.09	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 3" HOSE - LONG

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-30310L-SP	3	FPS300340L	3.6250"	4.36"	0.09	----
CF-30311L-SP	3	FPS300344L	3.6875"	4.36"	0.09	----
CF-30312L-SP	3	FPS300348L	3.7500"	4.36"	0.09	----
CF-30313L-SP	3	FPS300352L	3.8125"	4.36"	0.09	----
CF-30314L-SP	3	FPS300356L	3.8750"	4.36"	0.09	----
CF-30315L-SP	3	FPS300360L	3.9375"	4.36"	0.09	----
CF-30400L-SP	3	FPS300400L	4.000"	4.36"	0.09	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES PLATED

HOSE ACCESSORIES

CRIMPLOK FERRULES STEEL PLATED FOR 4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-40409-SP	4	FPS400436	4.5625"	4.19"	0.09	----
CF-40410-SP	4	FPS400440	4.6250"	4.19"	0.09	----
CF-40411-SP	4	FPS400444	4.6875"	4.19"	0.09	----
CF-40412-SP	4	FPS400448	4.7500"	4.19"	0.09	----
CF-40413-SP	4	FPS400452	4.8125"	4.19"	0.09	----
CF-40414-SP	4	FPS400456	4.8750"	4.19"	0.09	----
CF-40415-SP	4	FPS400460	4.9375"	4.19"	0.09	----
CF-40500-SP	4	FPS400500	5.000"	4.19"	0.09	----
CF-40501-SP	4	FPS400504	5.0625"	4.19"	0.09	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 4" HOSE - LONG

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-40410L-SP	4	FPS400440L	4.6250"	5.20"	0.09	----
CF-40411L-SP	4	FPS400444L	4.6875"	5.20"	0.09	----
CF-40412L-SP	4	FPS400448L	4.7500"	5.20"	0.09	----
CF-40413L-SP	4	FPS400452L	4.8125"	5.20"	0.09	----
CF-40414L-SP	4	FPS400456L	4.8750"	5.20"	0.09	----
CF-40415L-SP	4	FPS400460L	4.9375"	5.20"	0.09	----
CF-40500L-SP	4	FPS400500L	5.000"	5.20"	0.09	----
CF-40501L-SP	4	FPS400504L	5.0625"	5.20"	0.09	----

Project Information: For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 6" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-60610-SP	6	FPS600640	6.6250"	5.67"	0.12	----
CF-60612-SP	6	FPS600648	6.7500"	5.67"	0.12	----
CF-60614-SP	6	FPS600656	6.8750"	5.67"	0.12	----
CF-60702-SP	6	FPS600708	7.1250"	5.67"	0.12	----
CF-60704-SP	6	FPS600716	7.2500"	5.67"	0.12	----

Project Information: For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS

HOSE ACCESSORIES

CRIMPLOK FERRULES STAINLESS 304 FOR 1/2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-05101-SS304	1/2	FSS050104	1.0625"	2.14"	0.06	----
CF-05102-SS304	1/2	FSS050108	1.1250"	2.14"	0.06	----

Project Information: For use with CRIMPLOK crimp ground joints (GJM/GJS-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 3/4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-08105-SS304	3/4	FSS075120	1.3125"	2.14"	0.06	----
CF-08106-SS304	3/4	FSS075124	1.3750"	2.14"	0.06	----
CF-08108-SS304	3/4	FSS075132	1.5000"	2.14"	0.06	----

Project Information: For use with CRIMPLOK crimp ground joints (GJM/GJS-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 3/4" HOSE - LD FOR UNIVERSAL

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CFT-08104T-SS304	3/4	FLSS075108	1.1250"	2.14"	0.04	----
CFT-08106T-SS304	3/4	FLSS075112	1.1875"	2.14"	0.04	----
CFT-08107T-SS304	3/4	FLSS075114	1.2188"	2.14"	0.04	----
CFT-08108T-SS304	3/4	FLSS075116	1.2500"	2.14"	0.04	----
CFT-08109T-SS304	3/4	FLSS075118	1.2812"	2.14"	0.04	----

Project Information: For use with CRIMPLOK Universal crimp fittings (HE-XXXCR-SP) Ferrule thickness is .040"

CRIMPLOK FERRULES STAINLESS 304 FOR 1" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-10108-SS304	1	FSS100132	1.5000"	2.29"	0.06	----
CF-10109-SS304	1	FSS100136	1.5625"	2.29"	0.06	----
CF-10110-SS304	1	FSS100140	1.6250"	2.29"	0.06	----
CF-10111-SS304	1	FSS100144	1.6875"	2.29"	0.06	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 1" HOSE - LD FOR UNIVERSAL

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CFT-10117T-SS304	1	FLSS100134	1.5312"	2.29"	0.04	----

Project Information: For use with CRIMPLOK Universal crimp fittings (HE-XXXCR-SP) Ferrule thickness is .040"

CRIMPLOK FERRULES STAINLESS

HOSE ACCESSORIES

CRIMPLOK FERRULES STAINLESS 304 FOR 1-1/4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-13114-SS304	1-1/4	FSS125156	1.8750"	2.32"	0.06	----
CF-13115-SS304	1-1/4	FSS125160	1.9375"	2.32"	0.06	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 1-1/2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-15115-SS304	1-1/2	FSS150160	1.9375"	2.36"	0.06	----
CF-15200-SS304	1-1/2	FSS150200	2.000"	2.36"	0.06	----
CF-15201-SS304	1-1/2	FSS150204	2.0625"	2.36"	0.06	----
CF-15202-SS304	1-1/2	FSS150208	2.1250"	2.36"	0.06	----
CF-15203-SS304	1-1/2	FSS150212	2.1875"	2.36"	0.06	----
CF-15204-SS304	1-1/2	FSS150216	2.2500"	2.36"	0.06	----
CF-15205-SS304	1-1/2	FSS150220	2.3125"	2.36"	0.06	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-20208-SS304	2	FSS200232	2.5000"	2.79"	0.06	----
CF-20209-SS304	2	FSS200236	2.5625"	2.79"	0.06	----
CF-20210-SS304	2	FSS200240	2.6250"	2.79"	0.06	----
CF-20211-SS304	2	FSS200244	2.6875"	2.79"	0.06	----
CF-20212-SS304	2	FSS200248	2.7500"	2.79"	0.06	----
CF-20213-SS304	2	FSS200252	2.8125"	2.79"	0.06	----
CF-20214-SS304	2	FSS200256	2.8750"	2.79"	0.06	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 3" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-30309-SS304	3	FSS300336	3.5625"	3.94"	0.10	----
CF-30310-SS304	3	FSS300340	3.6250"	3.94"	0.10	----
CF-30311-SS304	3	FSS300344	3.6875"	3.94"	0.10	----
CF-30312-SS304	3	FSS300348	3.7500"	3.94"	0.10	----
CF-30313-SS304	3	FSS300352	3.8125"	3.94"	0.10	----
CF-30314-SS304	3	FSS300356	3.8750"	3.94"	0.10	----
CF-30315-SS304	3	FSS300360	3.9375"	3.94"	0.10	----
CF-30400-SS304	3	FSS300400	4.000"	3.94"	0.10	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES ALUMINUM
HOSE ACCESSORIES

CRIMPLOK FERRULES STAINLESS 304 FOR 4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-40410-SS304	4	FSS400440	4.6250"	4.19"	0.10	----
CF-40411-SS304	4	FSS400444	4.6875"	4.19"	0.10	----
CF-40412-SS304	4	FSS400448	4.7500"	4.19"	0.10	----
CF-40413-SS304	4	FSS400452	4.8125"	4.19"	0.10	----
CF-40414-SS304	4	FSS400456	4.8750"	4.19"	0.10	----
CF-40415-SS304	4	FSS400500	5.000"	4.19"	0.10	----

Project Information: For use with crimp cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES ALUMINUM FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-20209-A	2	SAL200236	2.5625"	2.79"	0.12	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES ALUMINUM FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-20210-A	2	SAL200240	2.6250"	2.79"	0.12	----
CSL-20211-A	2	SAL200244	2.6875"	2.79"	0.12	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES ALUMINUM FOR 3" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-30310-A	3	SAL300340	3.6250"	3.94"	0.12	----
CSL-30313-A	3	SAL300352	3.8125"	3.94"	0.12	----
CSL-30314-A	3	SAL300356	3.8750"	3.94"	0.12	----
CSL-30315-A	3	SAL300360	3.9375"	3.94"	0.12	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES ALUMINUM FOR 4" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-40411-A	4	SAL400444	4.6875"	4.19"	0.12	----
CSL-40412-A	4	SAL400448	4.7500"	4.19"	0.12	----
CSL-40413-A	4	SAL400452	4.8125"	4.19"	0.12	----
CSL-40414-A	4	SAL400456	4.8750"	4.19"	0.12	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES PLATED

HOSE ACCESSORIES

CRIMPLOK SLEEVES STEEL PLATED FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-08106-SP	3/4	SPS075124	1.3750"	2.14"	0.06	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 3/4" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-05100S-SP	1/2	SPS050100S	1.0000"	0.91"	0.06	----
CSL-08102S-SP	3/4	SPS075108S	1.1250"	1.10"	0.06	----
CSL-08105S-SP	3/4	SPS075120S	1.3125"	1.10"	0.06	----

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 1" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-10107-SP	1	SPS100128	1.4375"	2.29"	0.06	----
CSL-10108-SP	1	SPS100132	1.5000"	2.29"	0.06	----
CSL-10109-SP	1	SPS100136	1.5625"	2.29"	0.06	----
CSL-10110-SP	1	SPS100140	1.6250"	2.29"	0.06	----
CSL-10111-SP	1	SPS100144	1.6875"	2.29"	0.06	----
CSL-10112-SP	1	SPS100148	1.7500"	2.29"	0.06	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 1" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-10107S-SP	1	SPS100128S	1.4375"	2.26"	0.06	----
CSL-10108S-SP	1	SPS100132S	1.5000"	2.26"	0.06	----
CSL-10109S-SP	1	SPS100136S	1.5625"	2.26"	0.06	----
CSL-10111S-SP	1	SPS100144S	1.6875"	2.26"	0.06	----

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 1-1/4" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-13113S-SP	1-1/4	SPS125152S	1.8125"	1.26"	0.06	----
CSL-13114S-SP	1-1/4	SPS125156S	1.8750"	1.26"	0.06	----

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES PLATED

HOSE ACCESSORIES

CRIMPLOK SLEEVES STEEL PLATED FOR 1-1/2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-15112-SP	1-1/2	SPS150148	1.7500"	2.36"	0.06	----
CSL-15115-SP	1-1/2	SPS150160	1.9375"	2.36"	0.06	----
CSL-15200-SP	1-1/2	SPS150200	2.0000"	2.36"	0.06	----
CSL-15201-SP	1-1/2	SPS150204	2.0625"	2.36"	0.06	----
CSL-15202-SP	1-1/2	SPS150208	2.1250"	2.36"	0.06	----
CSL-15203-SP	1-1/2	SPS150212	2.1875"	2.36"	0.06	----
CSL-15204-SP	1-1/2	SPS150216	2.2500"	2.36"	0.06	----
CSL-15205-SP	1-1/2	SPS150220	2.3125"	2.36"	0.06	----
CSL-15206-SP	1-1/2	SPS150224	2.3750"	2.36"	0.06	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 1-1/2" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-15202S-SP	1-1/2	SPS150208S	2.1250"	1.46"	0.06	----

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-20204-SP	2	SPS200216	2.2500"	2.79"	0.06	----
CSL-20206-SP	2	SPS200224	2.3750"	2.79"	0.06	----
CSL-20207-SP	2	SPS200228	2.4375"	2.79"	0.06	----
CSL-20208-SP	2	SPS200232	2.5000"	2.79"	0.06	----
CSL-20209-SP	2	SPS200236	2.5625"	2.79"	0.06	----
CSL-20210-SP	2	SPS200240	2.6250"	2.79"	0.06	----
CSL-20211-SP	2	SPS200244	2.6875"	2.79"	0.06	----
CSL-20212-SP	2	SPS200248	2.7500"	2.79"	0.06	----
CSL-20213-SP	2	SPS200252	2.8125"	2.79"	0.06	----
CSL-20214-SP	2	SPS200256	2.8750"	2.79"	0.06	----
CSL-20215-SP	2	SPS200260	2.9375"	2.79"	0.06	----
CSL-20300-SP	2	SPS200300	3.0000"	2.79"	0.06	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 2" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-20206S-SP	2	SPS200224S	2.3750"	1.81"	0.06	----
CSL-20207S-SP	2	SPS200228S	2.4375"	1.81"	0.06	----
CSL-20209S-SP	2	SPS200236S	2.5625"	1.81"	0.06	----
CSL-20210S-SP	2	SPS200240S	2.6250"	1.81"	0.06	----
CSL-20211S-SP	2	SPS200244S	2.6875"	1.81"	0.06	----

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES PLATED

HOSE ACCESSORIES

CRIMPLOK SLEEVES STEEL PLATED FOR 2-1/2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-25302-SP	2-1/2	SPS250308	3.1250"	3.11"	0.06	----
CSL-25306-SP	2-1/2	SPS250324	3.3750"	3.11"	0.06	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 3" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-30304-SP	3	SPS300316	3.2500"	3.94"	0.09	----
CSL-30306-SP	3	SPS300324	3.3750"	3.94"	0.09	----
CSL-30307-SP	3	SPS300328	3.4375"	3.94"	0.09	----
CSL-30308-SP	3	SPS300332	3.5000"	3.94"	0.09	----
CSL-30309-SP	3	SPS300336	3.5625"	3.94"	0.09	----
CSL-30310-SP	3	SPS300340	3.6250"	3.94"	0.09	----
CSL-30311-SP	3	SPS300344	3.6875"	3.94"	0.09	----
CSL-30312-SP	3	SPS300348	3.7500"	3.94"	0.09	----
CSL-30313-SP	3	SPS300352	3.8125"	3.94"	0.09	----
CSL-30314-SP	3	SPS300356	3.8750	3.94"	0.09	----
CSL-30400-SP	3	SPS300400	4.000"	3.94"	0.09	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 3" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-30306S-SP	3	SPS300324S	3.3750"	2.44"	0.09	----
CSL-30308S-SP	3	SPS300332S	3.5000"	2.44"	0.09	----
CSL-30309S-SP	3	SPS300336S	3.5625"	2.44"	0.09	----
CSL-30310S-SP	3	SPS300340S	3.6250"	2.44"	0.09	----
CSL-30311S-SP	3	SPS300344S	3.6875"	2.44"	0.09	----
CSL-30312S-SP	3	SPS300348S	3.7500"	2.44"	0.09	----
CSL-30313S-SP	3	SPS300352S	3.8125"	2.44"	0.09	----
CSL-30314S-SP	3	SPS300356S	3.8750"	2.44"	0.09	----

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES PLATED

HOSE ACCESSORIES

CRIMPLOK SLEEVES STEEL PLATED FOR 4" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-40406-SP	4	SPS400424	4.3750"	4.19"	0.09	----
CSL-40408-SP	4	SPS400432	4.5000"	4.19"	0.09	----
CSL-40409-SP	4	SPS400436	4.5625"	4.19"	0.09	----
CSL-40410-SP	4	SPS400440	4.6250"	4.19"	0.09	----
CSL-40411-SP	4	SPS400444	4.6875"	4.19"	0.09	----
CSL-40412-SP	4	SPS400448	4.7500"	4.19"	0.09	----
CSL-40413-SP	4	SPS400452	4.8125"	4.19"	0.09	----
CSL-40414-SP	4	SPS400456	4.8750"	4.19"	0.09	----
CSL-40415-SP	4	SPS400460	4.9375"	4.19"	0.09	----
CSL-40500-SP	4	SPS400500	5.0000"	4.19"	0.09	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 4" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-40410S-SP	4	SPS400440S	4.6250"	3.31"	0.09	----
CSL-40411S-SP	4	SPS400444S	4.6875"	3.31"	0.09	----
CSL-40412S-SP	4	SPS400448S	4.7500"	3.31"	0.09	----
CSL-40413S-SP	4	SPS400452S	4.8125"	3.31"	0.09	----
CSL-40414S-SP	4	SPS400456S	4.9375"	3.31"	0.09	----
CSL-40500S-SP	4	SPS400500S	5.0000"	3.31"	0.09	----

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 6" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-60604-SP	6	SPS600616	6.2500"	5.67"	0.12	----
CSL-60606-SP	6	SPS600624	6.3750"	5.67"	0.12	----
CSL-60608-SP	6	SPS600632	6.5000"	5.67"	0.12	----
CSL-60610-SP	6	SPS600640	6.6250"	5.67"	0.12	----
CSL-60612-SP	6	SPS600648	6.7500"	5.67"	0.12	----
CSL-60614-SP	6	SPS600656	6.8750"	5.67"	0.12	----
CSL-60700-SP	6	SPS600700	7.0000"	5.67"	0.12	----
CSL-60702-SP	6	SPS600708	7.1250"	5.67"	0.12	----
CSL-60704-SP	6	SPS600716	7.2500"	5.67"	0.12	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 8" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-80812-SP	8	SPS800848	8.7500"	6.50"	0.12	----
CSL-80900-SP	8	SPS800900	9.0000"	6.50"	0.12	----
CSL-80904-SP	8	SPS800916	9.2500"	6.50"	0.12	----
CSL-80908-SP	8	SPS800932	9.5000"	6.50"	0.12	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS

HOSE ACCESSORIES

CRIMPLOK SLEEVES STEEL PLATED FOR 10" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-100108-SP	10	SPS100132	10.5000"	7.25"	0.12	
CSL-100114-SP	10	SPS100156	10.8750"	7.25"	0.12	

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 1/2" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-05100S-SS304	1/2	SSS050100S	1.000"	0.91"	0.06	----

Project Information: For use with regular combination nipples (CNT-XXX-SS/SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 3/4" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-08104-SS304	3/4	SSS075116	1.2500"	2.14"	0.06	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 3/4" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-08104S-SS304	3/4	SSS075116S	1.2500"	1.10"	0.06	----

Project Information: For use with regular combination nipples (CNT-XXX-SS/SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 1" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-10108-SS304	1	SSS100132	1.5000"	2.29"	0.06	----
CSL-10110-SS304	1	SSS100140	1.6250"	2.29"	0.06	----
CSL-10112-SS304	1	SSS100148	1.7500"	2.29"	0.06	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 1" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-10109S-SS304	1	SSS100136S	1.5625"	1.26"	0.06	----
CSL-10110S-SS304	1	SSS100140S	1.6250"	1.26"	0.06	----

Project Information: For use with regular combination nipples (CNT-XXX-SS/SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS

HOSE ACCESSORIES

CRIMPLOK SLEEVES STAINLESS 304 FOR 1-1/4" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-13114-SS304	1-1/4	SSS125156	1.8750"	2.32"	0.06	

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 1-1/4" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-13113S-SS304	1-1/4	SSS125152S	1.8125"	1.26"	0.06	

Project Information: For use with regular combination nipples (CNT-XXX-SS/SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 1-1/2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-15201-SS304	1-1/2	SSS150204	2.0625"	2.36"	0.06	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-20206-SS304	2	SSS200224	2.3750"	2.79"	0.06	----
CSL-20207-SS304	2	SSS200228	2.4375"	2.79"	0.06	----
CSL-20208-SS304	2	SSS200232	2.5000"	2.79"	0.06	----
CSL-20209-SS304	2	SSS200236	2.5625"	2.79"	0.06	----
CSL-20210-SS304	2	SSS200240	2.6250"	2.79"	0.06	----
CSL-20211-SS304	2	SSS200244	2.6875"	2.79"	0.06	----
CSL-20212-SS304	2	SSS200248	2.7500"	2.79"	0.06	----
CSL-20214-SS304	2	SSS200256	2.8750"	2.79"	0.06	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 3" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-30309-SS304	3	SSS300336	3.5625"	3.94"	0.10	----
CSL-30310-SS304	3	SSS300340	3.6250"	3.94"	0.10	----
CSL-30311-SS304	3	SSS300344	3.6875"	3.94"	0.10	----
CSL-30312-SS304	3	SSS300348	3.7500"	3.94"	0.10	----
CSL-30313-SS304	3	SSS300352	3.8125"	3.94"	0.10	----
CSL-30314-SS304	3	SSS300356	3.8750"	3.94"	0.10	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1) I.D. Tolerance = +/-0.012"

HOSE CLAMPS

WORM GEAR

QUICK RELEASE

MEGA & MAXI T-BOLT CLAMPS

SPRING LOADED T-BOLT

CONSTANT TORQUE & V-BAND

DOUBLE BOLT CLAMP

SPIRAL CLAMP
MAXI CLAMP

MUFFLER & EXHAUST

1 EAR, 2 EAR, GAPLESS

HAMMERLOCK & PUNCH-LOK

TOOLS

NON-PERFORATED OR LINED BAND MARINE CLAMPS

RUBBER LINED

HOSE FERRULES

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

WORM GEAR CLAMPS

MINIATURE CLAMPS - 5/16" BAND

300 Series
- 1/4" Hex Slotted Carbon Steel Screw
- 5/16" Wide 301 Stainless Steel Band
- Carbon Steel Housing

Applications: For marine, agricultural, industrial and automotive uses. Corrosion resistance varies with stainless components.

Mechanically interlocked, 3 piece construction for service sealing pressure without spot welding.

Stainless Steel band with Carbon Steel Housing and Screw

5/16" band, 1/4" screw

PART #	DIA. RANGE		BOX/CASE	
	MIN.	MAX.		
3000004	7/32"	5/8"	200/2400	----
300005	7/16"	11/16"	200/2400	----
3000006	5/16"	7/8"	200/2400	----
3000008	7/16"	1"	200/1200	----
300010	1/2"	1-1/16"	200/1200	----
300012	9/16"	1-1/4"	200/1200	----
300016	11/16"	1-1/2"	200/1200	----
3000020	7/8"	1-3/4"	200/1200	----

1/2" BAND CLAMPS

600 Series
- 5/16" Hex Slotted Carbon Steel Screw
- 1/2" Wide 201 Stainless Steel Band
- Carbon Steel Housing

Applications: A general purpose clamp for automobiles, plumbing, home and garden general clamping applications, with anti-corrosive properties varying with the number of components made from stainless steel.

- No PSI Rating
- 50lb/ Inch Torque Rating Die Set Function

Stainless Steel band with Carbon Steel Housing and Screw

1/2" band, 5/16" screw

PART #	#	DIA. RANGE		BAG/CASE	
		MIN.	MAX.		
600006	6	3/8"	7/8"	100/600	----
600008	8	7/16"	1"	100/600	----
600010	10	9/16"	1-1/16"	100/600	----
600012	12	9/16"	1-1/4"	100/600	----
600016	16	11/16"	1-1/2"	100/600	----
600020	20	3/4"	1-3/4"	100/300	----
600024	24	1-1/16"	2"	100/300	----
600028	28	1-5/16"	2-1/4"	100/300	----
600032	32	1-9/16"	2-1/2"	100/300	----
600036	36	1-13/16"	2-3/4"	50/200	----
600040	40	2-1/16"	3"	50/200	----
600044	44	2-5/16"	3-1/4"	50/200	----
600048	48	2-9/16"	3-1/2"	50/200	----
600052	52	2-13/16"	3-3/4"	25/100	----
600056	56	3-1/16"	4"	25/100	----
600060	60	3-5/16"	4-1/4"	25/100	----
600064	64	2-1/2"	4-1/2"	25/100	----
600072	72	3"	5"	25/100	----
600080	80	3-1/2"	5-1/2"	10/100	----
600088	88	4"	6"	10/100	----
600096	96	4-1/2"	6-1/2"	10/100	----
600104	104	5"	7"	10/100	----

Only I can change my life. No one can do it for me.- Carol Burnett

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

325 & 611 WORM GEAR CLAMPS

HOSE CLAMPS

MINIATURE CLAMPS - 5/16" BAND

325 Series
- 1/4" Hex Slotted Carbon Steel Screw
- 5/16" Wide 301 Stainless Steel Band
- 301 Stainless Steel Housing

Applications: For agricultural, industrial and automotive uses. Corrosion resistance varies with stainless components.

Mechanically interlocked, 3 piece construction for service sealing pressure without spot welding.

Stainless Steel band and housing with Carbon Steel Screw

5/16" band, 1/4" screw

PART #	DIA. RANGE		BOX/CASE	
	MIN.	MAX.		
325004	7/32"	5/8"	200/2400	----
325005	7/16"	11/16"	200/2400	----
325006	5/16"	7/8"	200/2400	----
325008	7/16"	1"	200/1200	----
325010	1/2"	1-1/16"	200/1200	----
325012	9/16"	1-1/4"	200/1200	----
325016	11/16"	1-1/2"	200/1200	----
325020	7/8"	1-3/4"	200/1200	----

1/2" BAND CLAMPS

611 Series
- 5/16" Hex Slotted Carbon Steel Screw
- 1/2" Wide 201 Stainless Steel Band
- 301 Stainless Steel Housing

Applications: The perfect clamp for automobiles, plumbing, home and garden general clamping applications, with anti-corrosive properties varying with the number of components made from stainless steel.

- No PSI Rating
- 50lb/ Inch Torque Rating Die Set Function

Stainless Steel band and housing with Carbon Steel Screw

1/2" band, 5/16" screw

PART #	#	DIA. RANGE		BAG/CASE	
		MIN.	MAX.		
611006	6	3/8"	7/8"	100/600	----
611008	8	7/16"	1"	100/600	----
611010	10	9/16"	1-1/16"	100/600	----
611012	12	9/16"	1-1/4"	100/600	----
611016	16	11/16"	1-1/2"	100/600	----
611020	20	3/4"	1-3/4"	100/300	----
611024	24	1-1/16"	2"	100/300	----
611028	28	1-5/16"	2-1/4"	100/300	----
611032	32	1-9/16"	2-1/2"	100/300	----
611036	36	1-13/16"	2-3/4"	50/200	----
611040	40	2-1/16"	3"	50/200	----
611044	44	2-5/16"	3-1/4"	50/200	----
611048	48	2-9/16"	3-1/2"	50/200	----
611052	52	2-13/16"	3-3/4"	25/100	----
611056	56	3-1/16"	4"	25/100	----
611060	60	3-5/16"	4-1/4"	25/100	----
611064	64	2-1/2"	4-1/2"	25/100	----
611072	72	3"	5"	25/100	----
611080	80	3-1/2"	5-1/2"	10/100	----
611088	88	4"	6"	10/100	----
611096	96	4-1/2"	6-1/2"	10/100	----
611104	104	5"	7"	10/100	----
611116	116	5-3/4"	7-3/4"	100/100	----
611128	128	6-1/2"	8-1/2"	100/100	----
611152	152	2"	10"	100/100	----
611164	164	1-3/4"	10-3/4"	100/100	----
611176	176	9-1/4"	11-1/4"	100/100	----
611188	188	2-1/16"	12-1/4"	100/100	----
611200	200	11"	13"	100/100	----
611212	212	11-3/4"	13-3/4"	100/100	----
611224	224	12-1/2"	14-1/2"	100/100	----
611248	248	10-3/4"	16"	100/100	----
611270	270	15-3/8"	17-3/8"	100/100	----
611312	312	18"	20"	100/100	----
611332	332	19-1/8"	21-1/4"	100/100	----
611390	390	22-7/8"	24-7/8"	100/100	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

350 & 620 WORM GEAR CLAMPS

HOSE CLAMPS

MINIATURE CLAMPS - 5/16" BAND

350 Series
- 1/4" Hex Slotted 410 Stainless Steel Screw
- 5/16" Wide 301 Stainless Steel Band
- 301 stainless Steel Housing
- 6mm thick

All Stainless Steel
5/16" band, 1/4" screw

PART #	DIA. RANGE		BOX/CASE	
	MIN.	MAX.		
350004	7/32"	5/8"	200/2400	----
350005	7/16"	11/16"	200/2400	----
350006	5/16"	7/8"	200/2400	----
350008	7/16"	1"	200/1200	----
350010	1/2"	1-1/16"	200/1200	----
350012	9/16"	1-1/4"	200/1200	----
350016	11/16"	1-1/2"	200/1200	----
350020	7/8"	1-3/4"	200/1200	----

Applications: For agricultural, industrial and automotive uses. Corrosion resistance varies with stainless components.

Mechanically interlocked, 3 piece construction for service sealing pressure without spot welding.

1/2" WIDE BAND CLAMPS (12.70MM)

620 Series
- 5/16" Hex Slotted 305 Stainless Steel Screw
- 1/2" Wide 301 Stainless Steel Band
- 301 Stainless Steel Housing

- 60mm Thickness
- Use for underground and other high corrosive applications.
- For a sure grip application.
- Especially suited to industrial applications

All Stainless Steel
1/2" band, 5/16" screw

PART #	#	DIA. RANGE		BOX/CASE	
		MIN.	MAX.		
620006	6	3/8"	7/8"	100/600	----
620008	8	7/16"	1"	100/600	----
620010	10	9/16"	1-1/16"	100/600	----
620012	12	9/16"	1-1/4"	100/600	----
620016	16	11/16"	1-1/2"	100/600	----
620020	20	3/4"	1-3/4"	100/300	----
620024	24	1-1/16"	2"	100/300	----
620028	28	1-5/16"	2-1/4"	100/300	----
620032	32	1-9/16"	2-1/2"	100/300	----
620036	36	1-13/16"	2-3/4"	50/200	----
620040	40	2-1/16"	3"	50/200	----
620044	44	2-5/16"	3-1/4"	50/200	----
620048	48	2-9/16"	3-1/2"	50/200	----
620052	52	2-13/16"	3-3/4"	25/100	----
620056	56	3-1/16"	4"	25/100	----
620060	60	3-5/16"	4-1/4"	25/100	----
620064	64	2-1/2"	4-1/2"	25/100	----
620072	72	3"	5"	25/100	----
620080	80	3-1/2"	5-1/2"	10/100	----
620088	88	4"	6"	10/100	----
620096	96	4-1/2"	6-1/2"	10/100	----
620104	104	5"	7"	10/100	----
620116	116	5-3/4"	7-3/4"	100/100	----
620128	128	6-1/2"	8-1/2"	100/100	----
620152	152	2"	10"	100/100	----
620164	164	1-3/4"	10-3/4"	100/100	----
620176	176	9-1/4"	11-1/4"	100/100	----
620188	188	9.9"	12-1/4"	100/100	----
620200	200	11"	13"	100/100	----
620212	212	11-3/4"	13-3/4"	100/100	----
620224	224	12-1/2"	14-1/2"	100/100	----
620248	248	10-3/4"	16"	100/100	----
620270	270	15-3/8"	17-3/8"	100/100	----
620312	312	18"	20"	100/100	----
620332	332	19-1/8"	21-1/4"	100/100	----
620390	390	22-7/8"	24-7/8"	100/100	----

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#316 MARINE WORM GEAR CLAMPS

HOSE CLAMPS

MINIATURE CLAMPS - 5/16" BAND

All #316 SS for Marine Environments

5/16" band, 1/4" screw

PART #	DIA. RANGE		BOX/CASE	
	MIN.	MAX.		
350004SS	7/32"	5/8"	200/2400	----
350005SS	7/16"	11/16"	200/2400	----
350006SS	5/16"	7/8"	200/2400	----
350008SS	7/16"	1"	200/1200	----
350010SS	1/2"	1-1/16"	200/1200	----
350012SS	9/16"	1-1/4"	200/1200	----
350016SS	11/16"	1-1/2"	200/1200	----
350020SS	7/8"	1-3/4"	200/1200	----

350SS Series

- 1/4" Hex Slotted 316 Stainless Steel Screw
- 316 Stainless Steel Band
- 8mm wide
- 60 mm thick
- 316 stainless Steel Housing

Applications: For marine, agricultural, industrial and automotive uses. Corrosion resistance varies with stainless components.

Mechanically interlocked, 3 piece construction for service sealing pressure without spot welding.

1/2" WIDE BAND CLAMPS (12.70MM)

All #316 SS for Marine Environments

1/2" band, 5/16" screw

ALL 316SS PART #	#	DIA. RANGE		BOX/CASE	
		MIN.	MAX.		
620006SS	6	3/8"	7/8"	100/600	----
620008SS	8	7/16"	1"	100/600	----
620010SS	10	9/16"	1-1/16"	100/600	----
620012SS	12	9/16"	1-1/4"	100/600	----
620016SS	16	11/16"	1-1/2"	100/600	----
620020SS	20	3/4"	1-3/4"	100/300	----
620024SS	24	1-1/16"	2"	100/300	----
620028SS	28	1-5/16"	2-1/4"	100/300	----
620032SS	32	1-9/16"	2-1/2"	100/300	----
620036SS	36	1-13/16"	2-3/4"	50/200	----
620040SS	40	2-1/16"	3"	50/200	----
620044SS	44	2-5/16"	3-1/4"	50/200	----
620048SS	48	2-9/16"	3-1/2"	50/200	----
620052SS	52	2-13/16"	3-3/4"	25/100	----
620056SS	56	3-1/16"	4"	25/100	----
620060SS	60	3-5/16"	4-1/4"	25/100	----
620064SS	64	2-1/2"	4-1/2"	25/100	----
620072SS	72	3"	5"	25/100	----

620SS Series

- 5/16" Hex Slotted 316 Stainless Steel Screw
- 1/2" Wide 316 Stainless Steel Band
- 316 Stainless Steel Housing

- 60mm Thickness
- Use for marine, underground and other high corrosive applications.

QUICK RELEASE

500/550 SERIES

These clamps feature a unique quick release design between the one piece housing and band allowing for quick and easy installation in restricted or difficult areas.

Applications: Quick release action permits easy installation in applications where clamp must be opened to be applied. Quick release clamps are used extensively in the telecommunications industry on cable enclosures where open air application demands durability.

Open/Close design allows easy installation.

500 Series
- 5/16" Hex Slotted Carbon Steel Screw
- 1/2" 301 Stainless Steel band
- 301 Stainless Steel Housing
- 410 Stainless Steel Bridge

550 Series
- 5/16" Hex Slotted 410 Stainless Steel Screw
- 1/2" 301 Stainless Steel band
- 301 Stainless Steel Housing
- 410 Stainless Steel Bridge

PART #		#	DIA. RANGE		PART #	
			MIN.	MAX.		
500012		12	1/2"	1-1/4"	550012	----
500020		20	3/4"	1-3/4"	550020	----
500028		28	1"	2-1/4"	550028	----
500036		36	1"	2-3/4"	550036	----
500048		48	1-1/2"	3-1/2"	550048	----
500056		56	1"	4"	550056	----
500072		72	2"	5"	550072	----
500088		88	2-1/16"	6"	550088	----
500104		104	1-3/4"	7"	550104	----
500128		128	1-3/4"	8-9/16"	550128	----
500152		152	2"	10"	550152	----
500188		188	2-1/16"	12-5/16"	550188	----
500216		216	10-3/16"	14"	550216	----
500248		248	10-3/4"	16"	550248	----
500280		280	14-1/4"	18"	550280	----
		312	14"	20"	550312	----

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T-BOLT CLAMPS

- All designs meet SAE J1508 specifications.
- .025" Band Thickness
- 3/4" Wide Band
- Band Material: 301 Series Stainless Steel
- Bolt Material: 304 Series Stainless Steel
- Nut Material: 304 Series Stainless Steel
- Nuts are Self-locking
- Torque Rating 75 in/lb

Opens 1/16" above and tightens 1/8" smaller
then nominal I.D. for a total of 3/16" range for clamps sizes 150 through 250. Opens 1/16" above and tightens 7/32" smaller then nominal I.D. for clamps sizes 256 through 750.

Purpose: To provide a quick, yet effective means of clamping a variety of fittings to a wide range of hose. T-Bolts can be applied with a standard 7/16" socket wrench. They provide 3600 sealing surface by using a shoe or formed bridge.

Services: The T-Bolt clamp is a high strength, reliable clamp with numerous applications in both the commercial and industrial markets including hose and duct-work connections for air, oil, water, other types of low pressure fluid lines, engine air intake, exhaust, hose and filters.

ALL STAINLESS STEEL

NOMINAL SIZE	O.D. RANGE		PART#	
	FROM:	TO:		
1-1/4	1-5/32"	1-15/32"	840131	----
1-1/2	1-3/8"	1-9/16"	840150	----
1-3/4	1-5/8"	1-13/16"	840175	----
1-7/8	1-3/4"	1-15/16"	840188	----
2	1-7/8"	2-1/16"	840200	----
2-1/4	2-1/8"	2-5/16"	840225	----
2-3/8	2-1/4"	2-7/16"	840238	----
2-1/2	2-3/8"	2-9/16"	840250	----
2-9/16	2-11/32"	2-5/8"	840256	----
2-5/8	2-13/32"	2-11/16"	840263	----
2-3/4	2-17/32"	2-13/16"	840275	----
2-7/8	2-21/32"	2-15/16"	840288	----
3	2-25/32"	3-1/16"	840300	----
3-1/8	2-29/32"	3-3/16"	840312	----
3-1/4	3-1/32"	3-5/16"	840325	----
3-1/2	3-9/32"	3-9/16"	840350	----
3-3/4	3-17/32"	3-13/16"	840375	----
3-53/64	3-19/32"	3-7/8"	840382	----
4	3-25/32"	4-1/16"	840400	----
4-1/4	4-1/32"	4-5/16"	840425	----
4-1/2	4-9/32"	4-9/16"	840450	----
4-3/4	4-17/32"	4-13/16"	840475	----
5	4-25/32"	5-1/16"	840500	----
5-1/4	5-1/32"	5-5/16"	840525	----
5-1/2	5-9/32"	5-9/16"	840550	----
5-3/4	5-17/32"	5-13/16"	840575	----
6	5-25/32"	6-1/16"	840600	----
6-1/4	6-1/32"	6-5/16"	840625	----
6-1/2	6-9/32"	6-9/16"	840650	----
6-3/4	6-17/32"	6-13/16"	840675	----
7	6-25/32"	7-1/16"	840700	----
7-1/2	7-9/32"	7-9/16"	840750	----
8	7-25/32"	8-1/16"	840800	----
8-1/4	8-9/32"	8-9/16"	840850	----
8-7/8	8-21/32"	8-15/16"	840888	----
10-7/8	10-21/32"	10-15/16"	8401088	----

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MEGA CLAMPS

Rugged heavy duty wide band clamps for use in medium duty air and water, general industrial, automotive, food and agricultural applications.

MEGAKLAMP

IMPORT

Megaklamp Series
Clamp sizes for hose O.D. from 17 mm to 252 mm
Yellow zinc plated steel Band/Bridge/Trunnion/Sleeve/Bolt
Band gauge from 0.6 mm to 1.7 mm depending upon clamp size
Band width from 18 mm to 26 mm depending upon clamp size
Bolt size from 5 mm to 10 mm depending upon clamp size

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH	
MKL-019-SP	17-19	0.67	0.75	1.02	----
MKL-022-SP	20-22	0.79	0.87	1.02	----
MKL-025-SP	23-25	0.87	0.98	1.02	----
MKL-028-SP	26-28	1.02	1.10	1.02	----
MKL-031-SP	29-31	1.14	1.22	1.02	----
MKL-035-SP	32-35	1.26	1.38	1.02	----
MKL-039-SP	36-39	1.42	1.54	1.02	----
MKL-043-SP	40-43	1.57	1.69	0.87	----
MKL-047-SP	44-47	1.73	1.85	0.87	----
MKL-051-SP	48-51	1.89	2.01	0.87	----
MKL-055-SP	52-55	2.05	2.17	0.87	----
MKL-059-SP	56-59	2.20	2.32	0.87	----
MKL-063-SP	60-63	2.36	2.48	0.87	----
MKL-067-SP	64-67	2.52	2.64	0.94	----
MKL-073-SP	68-73	2.68	2.87	0.94	----
MKL-079-SP	74-79	2.91	3.11	0.94	----
MKL-085-SP	80-85	3.15	3.35	0.94	----
MKL-091-SP	86-91	3.39	3.58	0.94	----
MKL-097-SP	92-97	3.62	3.82	0.94	----
MKL-103-SP	98-103	3.86	4.06	0.94	----
MKL-112-SP	104-112	4.09	4.41	0.94	----
MKL-121-SP	113-121	4.45	4.76	0.94	----
MKL-130-SP	122-130	4.80	5.12	0.94	----
MKL-139-SP	131-139	5.16	5.47	1.02	----
MKL-148-SP	140-148	5.51	5.83	1.02	----
MKL-161-SP	149-161	5.87	6.34	1.02	----
MKL-174-SP	162-174	6.38	6.85	1.02	----
MKL-187-SP	175-187	6.89	7.36	1.02	----
MKL-200-SP	188-200	7.40	7.87	1.02	----
MKL-213-SP	201-213	7.91	8.39	1.02	----
MKL-226-SP	214-226	8.43	8.90	1.02	----
MKL-239-SP	227-239	8.94	9.41	1.02	----

M6 MAXI CLAMP LIGHT

IMPORT

M6 Maxiclamp Series
Clamp sizes for hose O.D. from 23 mm to 43 mm
Silver (clear) zinc plated steel Band/Bridge/Trunnion/Sleeve/Bolt
Band gauge from 0.6 mm to 0.8 mm depending upon clamp size
Band width from 18 mm to 20 mm depending upon clamp size
Bolt size from 5 mm to 6 mm depending upon clamp size

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH	
M6-23	23-25	0.87	1.01	0.71	----
M6-26	26-28	1.02	1.13	0.71	----
M6-29	29-31	1.14	1.25	0.79	----
M6-32	32-35	1.26	1.41	0.79	----
M6-36	36-39	1.42	1.56	0.79	----
M6-40	40-43	1.57	1.72	0.79	----

M6 STAINLESS MAXI CLAMP LIGHT

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH	
M6S-23	23-25	0.87	1.01	0.71	----
M6S-26	26-28	1.02	1.13	0.71	----
M6S-29	29-31	1.14	1.25	0.79	----
M6S-32	32-35	1.26	1.41	0.79	----
M6S-36	36-39	1.42	1.56	0.79	----
M6S-40	40-43	1.57	1.72	0.79	----

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HOSE CLAMPS

HOSE CLAMPS

M8 MAXI CLAMP STANDARD

IMPORT

M8 Maxiclamp Series
Clamp sizes for hose O.D. from 44 mm to 130 mm
Silver (clear) zinc plated steel Band/Bridge/Trunnion/Sleeve
8 mm silver zinc plated bolt
Band gauge from 1.2 mm to 1.5 mm depending upon clamp size
Band width from 22 mm to 24 mm depending upon clamp size

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH	
M8-44	44-47	1.73	1.88	0.87	----
M8-48	48-51	1.89	2.04	0.87	----
M8-52	52-55	2.05	2.17	0.87	----
M8-56	56-59	2.20	2.35	0.87	----
M8-60	60-63	2.36	2.51	0.87	----
M8-64	64-67	2.52	2.67	0.87	----
M8-68	68-73	2.68	2.90	0.94	----
M8-74	74-79	2.91	3.14	0.94	----
M8-80	80-85	3.15	3.38	0.94	----
M8-86	86-91	3.39	3.61	0.94	----
M8-92	92-97	3.62	3.85	0.94	----
M8-98	98-103	3.86	4.08	0.94	----
M8-104	104-112	4.09	4.44	0.94	----
M8-113	113-121	4.45	4.79	0.94	----
M8-122	122-130	4.80	5.15	0.94	----

M8 MAXI CLAMP STANDARD

IMPORT

M8S Maxiclamp Series
Clamp sizes for hose O.D. from 44 mm to 130 mm
301 Stainless steel Band/Bridge/Trunnion/Sleeve
8 mm A2-70 Stainless steel bolt
0.8 mm thick band
Band width from 22 mm to 24 mm depending upon clamp size

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH	
M8S-44	44-47	1.73	1.88	0.87	----
M8S-48	48-51	1.89	2.04	0.87	----
M8S-52	52-55	2.05	2.17	0.87	----
M8S-56	56-59	2.20	2.35	0.87	----
M8S-60	60-63	2.36	2.51	0.87	----
M8S-64	64-67	2.52	2.67	0.87	----
M8S-68	68-73	2.68	2.90	0.94	----
M8S-74	74-79	2.91	3.14	0.94	----
M8S-80	80-85	3.15	3.38	0.94	----
M8S-86	86-91	3.39	3.61	0.94	----
M8S-92	92-97	3.62	3.85	0.94	----
M8S-98	98-103	3.86	4.08	0.94	----
M8S-104	104-112	4.09	4.44	0.94	----
M8S-113	113-121	4.45	4.79	0.94	----
M8S-122	122-130	4.80	5.15	0.94	----
M8S-131	131-139	5.16	5.50	1.02	----
M8S-140	140-148	5.51	5.86	1.02	----
M8S-149	149-161	5.87	6.37	1.02	----
M8S-162	162-174	6.38	6.88	1.02	----

M10 MAXI CLAMP HEAVY

IMPORT

M10S Maxiclamp Series
Select sizes available
301 Stainless steel Band/Bridge/Trunnion/Sleeve
10 mm A2-70 Stainless steel bolt
1.7 mm thick x 26 mm wide band

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH	
M10-131	131-139	5.16	5.50	1.02	----
M10-140	140-148	5.51	5.86	1.02	----
M10-149	149-161	5.87	6.37	1.02	----
M10-162	162-174	6.38	6.88	1.02	----
M10-175	175-187	6.89	7.39	1.02	----
M10-188	188-200	7.40	7.86	1.02	----
M10-201	201-213	7.91	8.42	1.02	----
M10-214	214-226	8.43	8.90	1.02	----
M10-227	227-239	8.94	9.44	1.02	----
M10-240	240-252	9.45	9.92	1.02	----

SPRING LOADED T-BOLT
HOSE CLAMPS

SPRING LOADED T-BOLT HOSE CLAMP

- Per SAE standard J1508 Type "SLTB"
- .025 Band Thickness
- 3/4 (19mm) band width
- Heavy duty springs
- Band Material: 300 stainless
- T-bolt: Carbon steel w/ zinc plating
- Housing (Bridge): 300 Stainless
- Hex nut: Carbon Steel, Nylon insert
- Torque rating: 150 in-lbs (8.5 mm)

Purpose: To provide constant tension performance to compensate for the expansion and contraction when temperatures fluctuate. Provides high strength and a 360° seal. Tighten with a 7/16" wrench or hex nutdriver.

Services: Designed for use in high vibration and large diameter applications common in heavy trucks, industrial machinery, off road equipment, agricultural irrigation and machinery, for air intake and coolant adapter

PART #	SAE #	MIN - MAX	WGT	BOX QTY	
844213	40	2.13 - 2.44	0.170	100	----
844225	44	2.25 - 2.56	0.174	100	----
844238	48	2.38 - 2.69	0.179	100	----
844250	52	2.50 - 2.81	0.181	100	----
844263	56	2.63 - 2.94	0.183	100	----
844275	60	2.75 - 3.06	0.185	100	----
844300	68	3 - 3.31	0.187	100	----
844306	70	3.06 - 3.38	0.190	100	----
844313	72	3.13 - 3.44	0.192	100	----
844325	76	3.25 - 3.56	0.194	100	----
844338	80	3.38 - 3.69	0.196	100	----
844350	84	3.50 - 3.81	0.196	100	----
844356	86	3.56 - 3.88	0.196	100	----
844363	88	3.63 - 3.94	0.198	100	----
844375	92	3.75 - 4.06	0.198	100	----
844406	102	4.06 - 4.38	0.203	100	----
844413	104	4.13 - 4.44	0.209	100	----
844425	108	4.25 - 4.56	0.214	100	----
844456	118	4.56 - 4.88	0.216	100	----
844500	132	5 - 5.31	0.218	100	----
844525	140	5.25 - 5.56	0.220	100	----
844600	164	6 - 6.31	0.223	100	----
844625	172	6.25 - 6.56	0.225	100	----

Automatically adjust diameter for hose expansioin and contraction due to temperature changes.

Always turn a negative situation into a positive situation.

– Michael Jordan

CONSTANT TORQUE HOSE CLAMPS

- All designs meet SAE J1508 specifications type "SLHD"
- .028 Band thickness
- Band material: 304 thickness
- Band width: 9/16" for 45in-lb
  5/8" for 90in-lb
- Band material: 304 stainless
- Housing: 304 stainless steel
- Bridge: 410 stainless steel
- Hex screw: 410 stainless steel

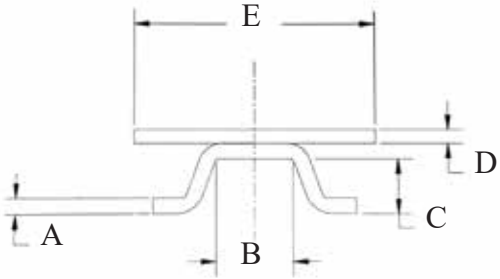
Purpose: To eliminate leaks by automatically incerasing or decreasing the clamps diameter, decreasing the need for retightening. Constant torque clamps have an extended tail on the band to protect soft hose or tube from being cut.

Services: Constant torque clamps are an excellent choice for fluctuating and extreme temperature applications and thermal compensation.

PART #	CLAMPING RANGE	BAND WIDTH	TORQUE	SCREW SIZE	WGT	BOX QTY	
842010	9/16" - 1 1/16"	9/16"	72 in-lb	5/16"	0.106	100	----
842012	11/16" - 1 1/4"	9/16"	72 in-lb	5/16"	0.108	100	----
842016	13/16" - 1 1/2"	9/16"	72 in-lb	5/16"	0.112	100	----
842020	13/16" - 1 3/4"	9/16"	72 in-lb	5/16"	0.119	100	----
842024	1 1/16" - 2"	9/16"	72 in-lb	5/16"	0.121	100	----
842200	1 1/4" - 2 1/8"	5/8"	130 in-lb High	3/8"	0.207	100	----
842250	1 3/4" - 2 5/8"	5/8"	130 in-lb High	3/8"	0.216	100	----
842300	2 1/4" - 3 1/8"	5/8"	130 in-lb High	3/8"	0.220	100	----
842350	2 3/4" - 3 5/8"	5/8"	130 in-lb High	3/8"	0.225	100	----
842400	3 1/4" - 4 1/8"	5/8"	130 in-lb High	3/8"	0.231	100	----
842450	3 3/4" - 4 5/8"	5/8"	130 in-lb High	3/8"	0.238	100	----
842500	4 1/4" - 5 1/8"	5/8"	130 in-lb High	3/8"	0.256	100	----

V-BAND HOSE CLAMPS

- Band thickness: see chart
- Band width: see chart
- Band material: 300 stainless
- Trunnion: 300 stainless
- 1/4" T-bolt: 300 stainless



Purpose: to provide a fast, secure cupling for connecting flanged joints.

Services: V-Band clamps feature high strength and positive sealing integrity for applications including: heavy duty diesel engine exhaust and turbochargers, filter housings, emissions and general industrial applications.

PART#	NOMINAL DIAMETER	V-INSERT SECTIONS			BANDS		WGT	BOX QTY	
		A	B	C	D	E			
843321	3.21	0.050	0.262	0.141	0.035	0.750	0.525	100	----
843382	3.82	0.077	0.207	0.281	0.040	0.875	0.531	100	----
843388	3.88	0.050	0.400	0.281	0.040	0.875	0.536	100	----
843450	4.50	0.077	0.207	0.281	0.040	0.875	0.547	100	----
843461	4.61	0.050	0.156	0.281	0.035	0.750	0.549	100	----
843475	4.75	0.050	0.400	0.281	0.040	0.875	0.553	100	----
843525	5.25	0.050	0.262	0.141	0.035	0.750	0.567	100	----
843588	5.88	0.050	0.400	0.281	0.040	0.875	0.575	100	----

DOUBLE BOLT CLAMPS

IMPORT

DBC Series

Rugged, heavy duty two bolt clamps with saddles
Zinc plated ductile iron clamps and saddles
Zinc plated carbon steel bolt and nuts

PART #	SIZE	SIZE RANGE	MAX TORQUE FT LBS	
DBC-40-DP	1-5/16	1-5/16" - 1-19/32"	20	----
DBC-60-DP	1-7/8	1-7/8" - 2-3/8"	25	----
DBC-76-DP*	2-3/8	2-3/8" - 3-1/16"	25	----
DBC-94-DP*	3-1/2	3-1/2" - 3-11/16"	40	----
DBC-400-DP*	3-1/2	3-1/2" - 4"	40	----
DBC-431-DP	3-13/16	3-13/16" - 4-1/16"	40	----
DBC-463-DP	4-1/16	4-1/16" - 4-7/16"	40	----
DBC-525-DP*	4-3/16	4-3/16" - 5"	60	----
DBC-550-DP*	5	5" - 5-1/2"	60	----
DBC-600-DP*	5-1/2	5-1/2" - 5-15/16"	60	----
DBC-639-DP	5-11/16	5-11/16" - 5-15/16"	60	----
DBC-675-DP*	6-1/8	6-1/8" - 6-7/8"	60	----
DBC-769-DP*	6-15/16	6-15/16" - 7-5/8"	60	----
DBC-818-DP	7-11/16	7-11/16" - 8-3/16"	125	----
DBC-875-DP*	8-1/4	8-1/4" -8-7/8"	125	----
DBC-988-DP*	8-15/16	8-15/16" - 9-7/8"	125	----
DBC-1125-DP*	9-15/16	9-15/16" - 11-3/8"	125	----
DBC-1275-DP*	11-3/16	11-3/16" - 13"	125	----
DBC-1360-DP	12-3/16	12-3/16" - 14"	200	----

R88 Series

IMPORT

Rugged, heavy duty two bolt clamps without saddles
Zinc plated ductile iron clamp
Zinc plated carbon steel bolt and nuts

PART #	SIZE	SIZE RANGE	MAX TORQUE FT LBS	
R88DB-12-DP*	1-1/8	1-1/8" - 1-1/4"	15	----
R88DB-16-DP*	1-3/8	1-3/8" - 1-1/2"	20	----
R88DB-20-DP*	1-5/8	1-5/8" - 1-3/4"	25	----
R88DB-24-DP*	2	2" - 2-1/8"	25	----
R88DB-32-DP*	2-1/4	2-1/4" - 2-3/8"	30	----

HOSE CLAMPS
HOSE CLAMPS

SC SPIRAL CLAMP SERIES

IMPORT

Spiral wound clamps specifically designed for use
on heavily corrugated suction hoses.
Available in left hand (counter clock-wise) and right hand (clockwise) spiral.
Zinc plated steel construction.

PART #	LIST	HOSE ID	O.D. RANGE MM	PART #	
SC-200R-SP*	----	2"	51 - 56	SC-200L-SP	----
SC-250R-SP	----	2-1/2"	61 - 76	SC-250L-SP	----
SC-300R-SP*	----	3"	76 - 90	SC-300L-SP	----
SC-400R-SP*	----	4"	106 - 118	SC-400L-SP	----
SC-500R-SP	----	5"	129 - 140	SC-500L-SP	----
SC-600R-SP*	----	6"	151 - 170	SC-600L-SP	----
SC-800R-SP	----	8"	198 - 217	SC-800L-SP	----
SC-1000R-SP	----	10"	274 - 290	SC-1000L-SP	----
SC-1200R-SP	----	12"	304 - 329	SC-1200L-SP	----

IMPORT

M10DC MAXICLAMP SERIES

Clamp sizes for hose O.D. from 131 mm to 252 mm
Silver (clear) zinc plated steel Band/ Bridge/Trunnion/Sleeve/Bolt
10 mm silver zinc plated steel bolts
1.7 mm thick x 30 mm wide band
Suggested installation torque 30 Nm (22 Ft lbs)
Minimum breaking torque 40 Nm (29.5 ft.lbs.)

PART #	SIZE MM	RANGE	
M10DC-86	86 - 91	3.38" - 3.58"	----
M10DC-92	92 - 97	3.62" - 3.82"	----
M10DC-104	104 - 112	4.09" - 4.41"	----
M10DC-113	113 - 121	4.45" - 4.76"	----
M10DC-122	122 - 130	4.80" - 5.12"	----
M10DC-131	131 - 139	5.16" - 5.47"	----
M10DC-140	140 - 148	5.51" - 5.83"	----
M10DC-149	149 - 161	5.87" - 6.34'	----
M10DC-162	162 - 174	6.38" - 6.85"	----
M10DC-175	175 - 187	6.89" - 7.36"	----
M10DC-188	188 - 200	7.40" - 7.87"	----
M10DC-200	200 - 220	7.87" - 8.66"	----
M10DC-220	220 - 240	8.66" - 9.45"	----
M10DC-240	240 - 260	9.45" - 10.24"	----
M10DC-260	260 - 280	10.24" - 11.02"	----
M10DC-280	280 - 300	11.02" - 11.81"	----
M10DC-300	300 - 325	11.81" - 12.80"	----
M10DC-325	325 - 350	12.80" - 13.78"	----
M10DC-350	350 - 375	13.78" - 14.76"	----
M10DC-375	375 - 400	14.76" - 15.75"	----
M10DC-400	400 - 425	15.75" - 16.73"	----
M10DC-425	425 - 450	17.73" - 17.72"	----
M10DC-450	450 - 475	17.72" - 18.70"	----

MUFFLER CLAMPS

Muffler Clamps are designed with elongated and tapered holes that pulls the legs around the pipe as the nuts tighten, making a tight seal. Other clamps legs do not wrap around the pipe, they stay straight and the clamp only connects at two points.

- Carbon steel band, housing and bridge
- All muffler clamps are zinc plated for superior corrosion resistance
- Heavy duty U-Bolt and band construction
- 3/8 U-bolt
- Base 2.4mm

SADDLE

PART #	SIZE	WGT	BOX QTY	
841175	1-3/4"	0.335	50	----
841200	2"	0.410	50	----
841250	2-1/2"	0.448	50	----
841300	3"	0.582	50	----
841350	3-1/2"	0.741	50	----
841400	4"	0.847	25	----
841450	4-1/2"	1.023	25	----
841500	5"	1.067	25	----

FLAT BAND

PART #	SIZE	WGT	BOX QTY	
841004	4"	0.847	25	----
841005	5"	1.093	25	----

GUILLOTINE - PROVIDES A COMPLETE 360° HEAVY DUTY SEAL

PART #	SIZE	WGT	BOX QTY	
841040	4"	0.820	25	----
841045	4-1/2"	0.847	25	----
841050	5"	0.988	25	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

EXHAUST CLAMPS

Complete with:
- One metal band - 76mm width
- One spacer
- Two bolts
- Two reaction blocks
- Individually boxed

- Pre-attached hardware for easy and accurate installation.

- Conforms to pipe and flex tubing to create the best seal available without distorting any pipes.

ALUMINIZED STEEL BUTT CLAMPS

- .7mm band thickness
- 76mm band width

PART #	SIZE	WGT	BOX QTY	
845200	2"	0.970	50	----
845300	3"	1.058	50	----
845350	3.50"	1.102	50	----
845400	4"	1.146	50	----
845500	5"	1.235	50	----
845600	6"	1.323	50	----
845-500SS*	5"	1.190	50	----

*Light pattern .5mm band thickness

ALUMINIZED STEEL LAP CLAMPS

- .7mm band thickness
- 76mm band width

PART #	SIZE	WGT	BOX QTY	
846200	2"	0.970	50	----
846250	2.50"	1.014	50	----
846275	2.75"	1.036	50	----
846300	3"	1.058	50	----
846350	3.50"	1.102	50	----
846400	4"	1.146	50	----
846500	5"	1.235	50	----

STAINLESS STEEL LAP CLAMPS

- .5mm band thickness
- 76mm band width

PART #	SIZE	WGT	BOX QTY	
847200	2"	0.926	50	----
847250	2.50"	0.970	50	----
847275	2.75"	0.992	50	----
847300	3"	1.014	50	----
847350	3.50"	1.058	50	----
847400	4"	1.102	50	----
847500	5"	1.190	50	----
847600	6"	1.279	50	----

STAINLESS STEEL EASY-FORM CLAMPS

- .5mm band thickness
- 76mm band width

PART #	SIZE	WGT	BOX QTY	
848200	2"	0.926	50	----
848225	2.25"	0.948	50	----
848250	2.50"	0.970	50	----
848275	2.75"	0.992	50	----
848300	3"	1.014	50	----
848350	3.50"	1.058	50	----
848400	4"	1.102	50	----
848500	5"	1.190	50	----
848600	6"	1.279	50	----
848700	7"	1.367	50	----

WARNING: This product can expose you to chemicals, including chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

CARBON STEEL 1-EAR CLAMPS

1-Ear Clamps are intended for low pressure applications such as automotive (not fuel lines), appliances, industrial machinery, underground irrigation systems and beverage dispensing equipment. They are specifically designed for mass production applications where inexpensive clamps are needed.

Pressure:
As a guideline, 1-Ear Clamps have held
30 bar - 441 psi.
This was done using a static water pressure test.

- 100 PER BAG

Material:
Hot dipped galvanized carbon steel band - G90

PART #	REF#	NOMINAL SIZE	INCHES		
			CLOSE	OPEN	
1050000	105	3/8"	0.350	0.414	----
1050001	113	7/16"	0.381	0.444	----
1050002	123	15/32"	0.394	0.486	----
1050003	133	1/2"	0.453	0.524	----
1050006	140	35/64"	0.472	0.551	----
1050007	145	9/16"	0.496	0.571	----
1050008	157	5/8"	0.543	0.618	----
1050009	170	11/16"	0.594	0.669	----
1050010	185	23/32"	0.618	0.728	----
1050011	198	3/4"	0.669	0.779	----
1050012	210	13/16"	0.716	0.827	----
1050013	226	7/8"	0.779	0.890	----
1050014	241	15/16"	0.839	0.949	----
1050015	256	1"	0.898	1.008	----
1050016	271	1-1/16"	0.945	1.067	----
1050017	286	1-1/8"	1.004	1.126	----
1050018	301	1-3/16"	1.063	1.185	----
1050020	331	1-5/16"	1.181	1.303	----
1050021	346	1-3/8"	1.240	1.362	----
1050023	376	1-15/32"	1.358	1.480	----
1050025	396	1-9/16"	1.437	1.559	----
1050026	410	1-5/8"	1.492	1.614	----
1050029	455	1-3/4"	1.669	1.791	----
1050030	470	1-16/16"	1.728	1.850	----
1050032	500	1-15/16"	1.846	1.968	----
1050033	515	2"	1.905	2.028	----

The art of communication is the language of leadership. - James Humes

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

EAR CLAMPS

2-EAR PINCH CLAMPS

Robust, durable one-piece design offers positive, tamper resistant seal for air and fluid media lines smooth edges prevent damage to hose designed for one time use only

CIRCLE CLAMP 2 EAR

White zinc plated carbon steel

PART #	SIZE	CLOSED	OPEN	
CC-1113	1/2	0.433	0.512	----
CC-1315	9/16	0.512	0.591	----
CC-1517	19/32	0.591	0.669	----
CC-1518	5/8	0.591	0.709	----
CC-1720	3/4	0.669	0.787	----
CC-2023	7/8	0.787	0.906	----
CC-2225	15/16	0.866	0.984	----
CC-2327	1	0.906	1.063	----
CC-2528	1-1/16	0.984	1.102	----
CC-2731	1-1/8	1.063	1.220	----
CC-3134	1-5/16	1.220	1.339	----
CC-3437	1-7/16	1.339	1.457	----
CC-3740	1-1/2	1.457	1.575	----

GAPLESS EAR CLAMPS

Features

▪Assured clamping seal
▪ For low durometer and/ or thin-walled hose/ tubing
▪ Perfect for silicon, vinyl, polyurethane or other high tech materials used in all industries.
▪ Once installed, smooth inner band circumference prevents damage to the hose while the unique tongue-in-groove design provides a 360° seal
▪ There are no steps or gaps inside clamp
Material
- Stainless steel tubing UNS S30400 or DIN 1.4301
▪ 100 PER BAG

PART #	NOMI-NAL SIZE	BAND WIDTH	INCHES CLOSE	INCHES OPEN	
16700001	9/32"	5mm	0.228	0.276	----
16700004	3/8"	5mm	0.307	0.374	----
16700007	7/16"	5mm	0.378	0.445	----
16700010	1/2"	7mm	0.425	0.524	----
16700012	35/64"	7mm	0.453	0.551	----
16700013	9/16"	7mm	0.472	0.571	----
16700016	5/8"	7mm	0.520	0.618	----
16700017	11/16"	7mm	0.571	0.669	----
16700022	3/4"	7mm	0.654	0.780	----
16700024	13/16"	7mm	0.701	0.827	----

HAMMERLOCK CPHL SERIES

Double wrapped galvanized steel band preformed to a given diameter and ready for application. Stainless steel lok for strength.

IMPORT

PART #	SIZE	WIDTH	
CPHL-03	1-3/16"	3/8"	----
CPHL-04	1"	5/8"	----
CPHL-05*	1-1/4"	5/8"	----
CPHL-06	1-1/2"	5/8"	----
CPHL-07*	1-3/4"	5/8"	----
CPHL-08*	2"	5/8"	----
CPHL-09	2-1/4"	5/8"	----
CPHL-10*	2-1/2"	5/8"	----
CPHL-11*	2-3/4"	5/8"	----
CPHL-12	3"	5/8"	----
CPHL-14*	3-1/2"	5/8"	----
CPHL-16*	4"	5/8"	----
CPHL-18	4-1/2"	5/8"	----
CPHL-20*	5"	5/8"	----
CPHL-24*	6"	5/8"	----
CPHL-26	6-1/2"	5/8"	----
CPHL-28*	7"	5/8"	----
CPHL-32	8"	5/8"	----

HAMMERLOCK CPHL SERIES

Double wrapped stainless steel band preformed to a given diameter and ready for application. Stainless steel lok for strength.

IMPORT

PART #	SIZE	WIDTH	
CPHLS-04*	1"	5/8"	----
CPHLS-05*	1-1/4"	5/8"	----
CPHLS-06*	1-1/2"	5/8"	----
CPHLS-07*	1-3/4"	5/8"	----
CPHLS-08*	2"	5/8"	----
CPHLS-09*	2-1/4"	5/8"	----
CPHLS-10*	2-1/2"	5/8"	----
CPHLS-11*	2-3/4"	5/8"	----
CPHLS-12*	3"	5/8"	----
CPHLS-14*	3-1/2"	5/8"	----
CPHLS-16*	4"	5/8"	----
CPHLS-18*	4-1/2"	5/8"	----
CPHLS-20*	5"	5/8"	----
CPHLS-24*	6"	5/8"	----
CPHLS-28*	7"	5/8"	----
CPHLS-32	8"	5/8"	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

CLAMPING TOOLS
HOSE CLAMPS

MODEL 1098 I STANDARD JAW PINCERS

Domestic

PART #	
OETP-1098	----

Import

PART #	
CCP-1098	----

PART #	
1410118	----

SIDE JAW PINCERS

This dual purpose, side jaw design allows clamps to be applied or removed in confined areas with pincers held parallel to the hose. Also used like standard Pincers.

Domestic

PART #		
1410083	Model 10991	----

TPT TOOLS AND PARTS

PART #	
TPT-1	----

HOSE CRIMPER

HOSE CRIMPER COMES WITH 5 DIES
Die Sizes = 5/8", 37/64", 12/32", 31/64", 11/16"

PART #		
308070	Hose Crimper	----

LOKING TOOL

PART #	
F38	----

Portable hand tool used to apply punch Type 3/8 & 5/8 Clamps

BUCHANAN TYPE

LOKING TOOL

PART #	
F40	----

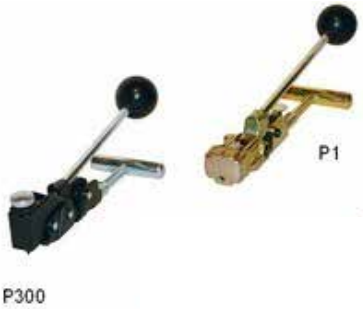
Used to apply Punch Type 3/8 & 5/8 clamps. Order mallet separately

LOKING TOOL

Used to apply Punch Type 3/8 & 5/8 clamps. Order mallet separately

PART #	
F100	----

LOKING TOOL HD



PART #		
P1	HEAVY DUTY	----
P300	IMPORTED VERSION	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

LINED BAND CLAMPS

HOSE CLAMPS

Features unique one-piece housing, rolled-up band edges and a non-perforated (embossed) band that protects the hose. For added corrosion resistance, the band in the 12mm Standard is made of Aluzinc which gives three times the protection offered by conventional galvanized steel.

- Features high clamping force and high durability torque.
- Stainless: All parts in AISI 304 Stainless Steel.

A non-perforated band with rolled up edges eliminates hose damage while increasing clamping force.
Per SAE standard J1508 Type "FEO"

GENERAL PURPOSE EMBOSSED WORM-GEAR HOSE CLAMPS

- Minimum Qty may apply

Part # Aluzinc		SAE Size	Clamping Range Inches	Clamping Range mm	Bag	Part# 304 SS	
88024	----	8	5/8-1	15-24	1000	89024	----
88028	----	10	3/4-1-1/8	19-28	500	89028	----
88032	----	12	7/8-1-1/4	22-32	500	89032	----
88038	----	16	1-1/16-1-1/2	26-38	500	89038	----
		20	1-1/4-1-3/4	32-44	500	89044	----
88050	----	24	1-1/2-2	38-50	500	89050	----
88056	----	28	1-3/4-2-1/4	44-56	500	89056	----
88065	----	32	2-2-9/16	50-65	200	89065	----
88075	----	40	2-5/16-3	58-75	200	89075	----
88085	----	44	2-11/16-3-3/8	68-85	200	89085	----
88095	----	52	3-3-3/4	77-95	200	89095	----
88112	----	64	3-7/16-4-7/16	87-112	200	89112	----

MINI CLAMPS

Sure seal for small, thin walled hoses. The nut is secured to the clamp, making installation easier and the hexagonal head can be tightened with a socket wrench or screw driver. Bandwidth is 9mm.

PAINTED ALUZINC STANDARD MINI CLAMPS

PART # ALUZINC	CLAMPING RANGE INCHES	CLAMPING RANGE MM	QTY PER BAG	
92010	.36-.41	9-10.5	1000	----
92011	.37-.45	9.5-11.5	900	----
92012	.41-.49	10.5-12.5	800	----
92013	.45-.53	11.5-13.5	800	----
92014	.49-.57	12.5-14.5	700	----
92015	.53-.61	13.5-15.5	600	----
92016	.55-.65	14-16.5	500	----
92017	.59-.69	15-17.5	500	----

MARINE - EMBOSSED

NON-PERFORATED WORM GEAR CLAMPS

- Meets the DIN 3017 Standard
- Replaces the Ultra Clamps 316 stainless steel
- 12mm band widths
- Installation torque 60lbs
- General purpose non perforated band especially suited for most hoses and soft silicone hoses.
- Band edges rolled to protect soft hoses from shearing and fraying
- Common applications include: vehicular, industrial, mechanical engineering, plumbing and marine.
- ROLLED EDGES
- BAND WILL NOT DAMAGE SOFT HOSES

ALL #316 SS MATERIAL

12MM WIDE EMBOSSED ALL 316 BAND CLAMPS

PART #	RANGE OF ADJUST (IN MM)	RANGE OF ADJUST (INCHES)	
96022	12-22	.469-.859	----
96027	16-27	.625-1.06	----
96032	20-32	.787-1.26	----
96040	25-40	.984-1.575	----
96050	35-50	1.26-1.969	----
96060	40-60	1.575-2.362	----
96070	50-70	1.969-2.756	----
96080	60-80	2.362-3.15	----
96090	70-90	2.756-3.543	----
96100	80-100	3.15-3.937	----
96110	90-110	3.543-4.33	----
96120	100-120	3.937-4.724	----
96130	110-130	4.33-5.118	----
96140	120-140	4.72-5.512	----
96150	130-150	5.118-5.906	----
96160	140-160	5.512-6.299	----

MINI CLAMPS

304 SS MINI CLAMPS

PART # 304 SS	CLAMPING RANGE INCHES	CLAMPING RANGE MM	QTY PER BAG	
93008	.30-.34	7.5-8.5	1000	----
93009	.34-.37	8.5-9.5	1000	----
93011	.41-.47	10.5-12	900	----
93013	.49-.55	12.5-14	800	----
93014	.53-.59	13.5-15	700	----
93016	.59-.67	15-17	1000	----
93017	.63-.71	16-18	500	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LINED, MINI/ RUBBER LINED

HOSE CLAMPS

RUBBER LINED CLAMPS

Multiple uses for holding cable, wire, pipe and hose. The rubber cushion absorbs vibration, provides protection against scratching and is made of black EPDM type rubber.

Rubber cushion clamps are used in a variety of industries and applications including automotive, truck, hydraulics and pneumatics, ship building, refrigeration, large equipmetnt packaging etc.

Bandwidths and mounting hose sizes vary by diameter and material.

- Aluzinc clamps have a .26 hole diameter
- Stainless Steel .20 diameter

PART # ALUZ-INC	QTY PER BAG		CLAMPING RANGE		PART# 304 SS	QTY PER BAG	
			INCHES	MM			
95300	100	----	1/8	3			
95301	100	----	3/16	5	96301	1000	----
95302	100	----	1/4	6	96302	200	----
95303	100	----	5/16	8	96303	1000	----
95304	100	----	3/8	10	96304	100	----
95305	100	----	7/16	11	96305	1000	----
95306	100	----	1/2	13	96306	100	----
95307	100	----	9/16	14	96307	100	----
95308	100	----	5/8	16	96308	100	----
95309	50	----	11/16	18			
95310	50	----	3/4	19	96310	500	----
95311	50	----	13/16	21			
95312	50	----	7/8	22	96312	500	----
95313	50	----	15/16	24			
95314	50	----	1	25	96314	500	----
95315	50	----	1-1/16	27			
95316	50	----	1-1/8	29	96316	500	----
95317	50	----	1-3/16	30			
95318	50	----	1-1/4	32	96318	500	----
95319	50	----	1-5/16	33			
95320	50	----	1-3/8	35	96320	500	----
95321	50	----	1-7/16	36			
95322	500	----	1-1/2	38	96322	100	----
95326	50	----	1-5/8	41			
95323	25	----	1-3/4	45	96323	500	----
95328	25	----	1-7/8	47			
95324	25	----	2	51			
95325	25	----	2-1/8	54			
95329	25	----	2-3/8	60			
95327	25	----	2-1/2	65			
95330	15	----	2-15/16	74			
95331	10	----	4-5/16	110			

RUBBER CUSHIONED CLAMP, ZINC PLATED STEEL

PART #	MOUNTING DIA	CLAMP DIA	
95402	3/8"	1/4"	----
95404	3/8"	3/8"	----
95406	3/8"	1/2"	----
95408	3/8"	5/8"	----
95410	3/8"	3/4"	----
95414	3/8"	1"	----
95418	3/8"	1 1/4"	----
95422	3/8"	1 1/2"	----
95424	3/8"	2"	----
95427	3/8"	2 1/2"	----
95432	3/8"	3"	----
95433	3/8"	4"	----

GALVANIZED STEEL VINYL COATED CLAMP

PART #	MOUNTING DIA	CLAMP DIA	
95504	1/4"	3/8"	----
95506	1/4"	1/2"	----
95508	1/4"	5/8"	----
95510	1/4"	3/4"	----
95512	1/4"	7/8"	----
95514	1/4"	1"	----
95516	1/4"	1 1/8"	----
95518	1/4"	1 1/4"	----
95522	1/4"	1 1/2"	----
95523	1/4"	1 3/4"	----
95524	1/4"	2"	----

HOSE FERRULES

Brass Hose Ferrules offer an alternative to hose clamps. After crimping, the ferrule will provide a permanent clamping force on both the hose and fitting.

I.D. Pierce/ Hole

- ASTMB36 Alloy 268

PART #	FERRULE #	I.D.	LENGTH	PIERCE	GAUGE	
32500	6231	0.330	0.49	0.250	0.020	----
32501	833	0.358	0.500	0.265	0.020	----
32503	833B	0.375	0.718	0.265	0.025	----
32502	622	0.380	0.500	0.265	0.020	----
32550	619	0.400	0.47	0.27	0.020	----
32504	620	0.410	0.500	0.265	0.020	----
32551	769R	0.450	0.562	0.343	0.020	----
32552	4750	0.478	0.687	0.328	0.025	----
32553	624R	0.500	0.500	0.343	0.020	----
32506	7322A	0.500	1.000	0.343	0.025	----
32554	7322	0.500	1.000	0.328	0.025	----
32555	625	0.525	0.47	0.36	0.020	----
32517	625A	0.525	0.56	0.360	0.020	----
32556	7323	0.525	1.000	0.375	0.025	----
32521	9974	0.525	1.000	0.437	0.025	----
32557	7324	0.531	1.000	0.375	0.025	----
32558	626	0.550	0.484	0.375	0.020	----
32507	3588	0.56	0.75	0.375	0.020	----
32559	7325	0.56	1.000	0.437	0.025	----
32561	7326	0.593	1.000	0.437	0.025	----
32563	JJ	0.600	0.500	0.500	0.020	----
32526	II	0.625	0.500	0.500	0.020	----
32564	7327	0.625	1.000	0.437	0.025	----
32565	HH	0.650	0.500	0.500	0.020	----
32566	7328	0.656	1.000	0.437	0.025	----
32567	GG	0.675	0.515	0.500	0.020	----
32568	7329	0.69	1.000	0.500	0.025	----

PART #	FERRULE #	I.D.	LENGTH	PIERCE	GAUGE	
32570	7330	0.718	1.000	0.500	0.025	----
32508	7330A	0.718	1.000	0.625	0.025	----
32571	EE	0.725	0.530	0.500	0.020	----
32572	DD	0.750	0.531	0.500	0.020	----
32510	7331B	0.75	1.00	0.500	0.025	----
32573	7331	0.750	1.000	0.625	0.025	----
32574	CC	0.775	0.531	0.500	0.020	----
32533	7332B	0.781	1.000	0.500	0.025	----
32575	7332	0.781	1.000	0.625	0.025	----
32576	BB	0.800	0.546	0.562	0.020	----
32577	7333	0.812	1.000	0.625	0.025	----
32578	AA	0.825	0.546	0.562	0.020	----
32535		0.85	0.968	0.687	0.025	----
32579	7244	0.875	0.843	0.687	0.025	----
32539	5029A	0.900	0.875	0.687	0.025	----
32580	7113	0.925	0.968	0.750	0.025	----
32543	5028A	0.975	0.843	0.687	0.025	----
32545	5235A	1.000	0.843	0.687	0.025	----
32549	7145A	1.050	0.843	0.687	0.025	----
32584	5027	1.100	0.843	0.812	0.025	----
32586	7104A	1.15	0.843	0.875	0.025	----
32588	7088A	1.175	0.875	0.875	0.025	----
32590	875L	1.200	0.843	0.875	0.025	----
32591	7291	1.225	0.968	0.875	0.025	----
32592	7255	1.25	0.968	1.000	0.04	----
32596	8000	1.425	0.875	1.062	0.025	----
32597	1500	1.50	0.875	1.125	0.025	----

STAINLESS STEEL FERRULES

PART #	CROSS #	I.D.	LENGTH	HOLE	METAL THICKNESS	
32552SS	x4750	.478	.687	.328	.020	----
32557SS	7324	.531	1.00	.438	.020	----
32559SS	7325	.56	1.00	.437	.020	----
32561SS	7326	.593	1.00	.437	.020	----
32564SS	7327	.625	1.00	.437	.020	----
32566SS	7328	.656	1.00	.437	.020	----
32568SS	7329	.69	1.00	.50	.020	----
32570SS	7330	.718	1.00	.625	.020	----
32575SS	7332	.781	1.00	.625	.020	----
32577SS	7333	.812	1.00	.625	.020	----
32588SS	7088A	1.175	.844	.875	.020	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

TUBING

POLYURETHANE

POLYETHYLENE

Sold individually boxed

Natural, Black, Blue, Green, Red, Yellow, Orange

NYLON

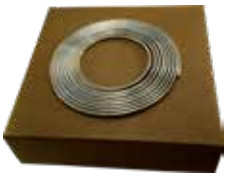
Sold individually boxed

PVC

• Clear

Sold individually boxed

COPPER AND ALUMINUM



TYPE L AND REFRIGERATION

ALUMINUM

POLYURETHANE NSF 51®

NSF 51® polyurethane (PUR) Shore A 98 tubing is made from the highest quality raw materials available. it is etherbased to provide excellent hydrolysis, oil and cold resistance. Polyurethane NSF 51® is strong and flexible and offers superior kink resistance compared to other tubing. It is 5 to 10 times more wear resistant and lighter in weight than any rubber hose.

Polyurethane NSF 51® tubing has an outside diameter made to extremely tight tolerances. It is ideal for use with push-to-connect fittings, as well as barb-type and compression fittings for simple installation.

Features

- Strong
- Lightweight
- Flexible
- Abrasion Resistant
- Heat & Cold Resistant
- Chemical Resistant
- Kink Resistant
- NSF 51® Certified
- Meets NSF 61® Requirements

Specifications

Temperature Range: -40°F to +160°F
Hardness: Shore A 98
Vacuum Rating:
To 28" Hg
Tolerances:
1/8"-1/2" O.D. +/- .005
9/16"-3/4" O.D. +/- .006
RoHS Compliant

Applications

Pneumatic Tools
Pneumatic Piping
Vacuum
Laboratories
Robotics
Motion Control
Instrumentation
Agriculture
Lube Lines
Painting Systems
Food & Beverages

100' FOOT LENGTHS

CLEAR

PART #	O.D. (IN)	I.D. (IN)	WALL THICK-NESS (IN)	BEND RADIUS (IN)	W.P. @70°F (PSI)	W.P. @150°F (PSI)	3:1 BURST PRES-SURE	PACKAGE WEIGHT (LBS)	
973341	4mm, 5/32	.093	.031	.250	200	85	600	.70	----
973343	.250	.156	.047	.476	180	70	540	1.50	----

BLACK

PART #	O.D. (IN)	I.D. (IN)	WALL THICKNESS (IN)	BEND RADIUS (IN)	W.P. @70°F (PSI)	W.P. @150°F (PSI)	3:1 BURST PRES-SURE	PACK-AGE WEIGHT (LBS)	
73341B	4mm, 5/32	.093	.031	.250	200	85	600	.70	----
73343B	.250	.156	.047	.476	180	70	540	1.50	----
73345B	.375	.250	.063	1.000	150	70	450	3.40	----

BLUE

PART #	O.D. (IN)	I.D. (IN)	WALL THICK-NESS (IN)	BEND RA-DIUS (IN)	W.P. @70°F (PSI)	W.P. @150°F (PSI)	3:1 BURST PRES-SURE	PACK-AGE WEIGHT (LBS)	
73341U	4mm, 5/32	.093	.031	.250	200	85	600	.70	----
73343U	.250	.156	.047	.476	180	70	540	1.50	----
73345U	.375	.250	.063	1.000	150	70	450	3.40	----

RED

PART #	O.D. (IN)	I.D. (IN)	WALL THICK-NESS (IN)	BEND RA-DIUS (IN)	W.P. @70°F (PSI)	W.P. @150°F (PSI)	3:1 BURST PRES-SURE	PACK-AGE WEIGHT (LBS)	
73341R	4mm, 5/32	.093	.031	.250	200	85	600	.70	----
73343R	.250	.156	.047	.476	180	70	540	1.50	----
73345R	.375	.250	.063	1.000	150	70	450	3.40	----
73346R	.562	.375	.093	1.142	140	60	420	5.60	----

OD Sizes Available

.125, .187, 1/4(1/8), 8mm(5/16)
.562, .625 and .750

Other sizes, Lengths and Colors available

- Available in longer lengths upon request
- Other colors available

POLYETHYLENE

LINEAR LOW DENSITY POLYETHYLENE TUBING (LLDPE)

Features

- Chemically Inert
- Chemical Resistant
- Lightweight & Flexible
- Good Dielectric Properties
- Impermeable to Gases
- Meets FDA Requirements
- Multiple Colors Available
- Vacuum rating to 28" Hg

Polyethylene is made from 100% non-toxic ingredients. It's inert nature and FDA compliant status makes it perfect for food, water and beverage piping. It is ideal for use in pneumatic, drain piping, lab use and chemical transfer applications which require an inexpensive tubing

Polyethylene is highly-resistant to stress cracking from chemicals, aging and ultraviolet exposure. For use with barb-type, push-to-connect or compression-style fittings.

Specifications

Temperature Range: -50°F to +140°F

Hardness: Shore A 93A
Shore D 45D

Applications

Food & Beverage
Pneumatic Tools
Pneumatic Piping
Electrical Jacketing
Drain Lines
Instrumentation
Chemical Transfer
Process Control
Laboratories

100' LENGTH

500' LENGTH

1000' LENGTH

100' LENGTH - Natural

PART #	TUBE O.D.	TUBE ID	TUBE WALL	WORKING PRESSURE	
973200	1/8"	0.08	0.022	250	----
973203	1/4"	0.17	0.040	150	----
973204	1/4"	0.125	0.0625	350	----
973205	8mm/5/16"	0.236	0.038	150	----
973206	3/8"	0.25	0.0625	150	----
973207	1/2"	0.375	0.0625	125	----
973208	5/8"	0.50	0.0625	100	----

500' LENGTH

PART #	TUBE O.D.	TUBE ID	TUBE WALL	WORKING PRESSURE	
73200N5	1/8"	0.085	0.020	250	----
73203N5	1/4"	0.17	0.040	150	----
73204N5	1/4"	0.125	0.0625	350	----
73206N5	3/8"	0.25	0.0625	150	----
73207N5	1/2"	0.375	0.0625	125	----

1000' LENGTH

PART #	TUBE O.D.	TUBE ID	TUBE WALL	WORKING PRESSURE	
73203N1	1/4"	0.17	0.040	150	----
73206N1	3/8"	0.25	0.0625	150	----

POLYETHYLENE
TUBING

LLDPE POLYETHYLENE TUBING - COLORS

BLACK

- 100'
- 500'
- 1000'

PART #	COLOR	LENGTH	NOMINAL O.D.	
73203B	Black	100'	1/4"	----
73204B	Black	100'	1/4"	----
73205B	Black	100'	5/16"	----
73206B	Black	100'	3/8"	----
73207B	Black	100'	1/2"	----
73208B	Black	100'	5/8"	----
73203B5	Black	500'	1/4"	----
73205B5	Black	500'	5/16"	----
73206B5	Black	500'	3/8"	----
73207B5	Black	500'	1/2"	----
73203B1	Black	1000'	1/4"	----
73206B1	Black	1000'	3/8"	----

GREEN

- 100'
- 500'
- 1000'

PART #	COLOR	LENGTH	NOMINAL O.D.	
73203G	Green	100'	1/4"	----

RED

- 100'
- 500'
- 1000'

PART #	COLOR	LENGTH	NOMINAL O.D.	
73203R	Red	100'	1/4"	----
73206R	Red	100'	3/3"	----
73203R5	Red	500'	1/4"	----
73206R5	Red	500'	3/8"	----
73203R1	Red	1000'	1/4"	----

BLUE

- 100'
- 500'
- 1000'

PART #	COLOR	LENGTH	NOMINAL O.D.	
73203U	Blue	100'	1/4"	----
73206U	Blue	100'	3/8"	----
73207U	Blue	100'	1/2"	----
73203U5	Blue	500'	1/4"	----
73206U5	Blue	500'	3/8"	----
73203U1	Blue	1000'	1/4"	----

I truly believe that everything that we do and everyone that we meet is put in our path for a purpose. There are no accidents; we're all teachers - if we're willing to pay attention to the lessons we learn, trust our positive instincts and not be afraid to take risks or wait for some miracle to come knocking at our door.

- Marla Gibbs

NYLON 12 TUBING

Nylon 12 tubing is recognized as an industry standard for applications which require higher working pressures and higher heat and/or chemical resistance. It is ideal for outdoor use applications because of its superior stress crack resistance. Nylon 12 is strong, lightweight and has a very low moisture absorption rate compared to other nylons. By not absorbing moisture, Nylon 12 remains more flexible, which in turn extends it's service life. Nylon 12 tubing can be used with standard push-to-connect fittings and compression fittings for simple installation.

Because of it's semi-rigid properties, a thinner tube wall provides higher flow rates and working pressure.

Features

- Strong
- Lightweight
- Flexible
- Abrasion Resistant
- Heat Resistant
- Chemical Resistant
- Heat/ Light Stabilized
- Black - UV Rated

Specifications

Temperature Range: -60°F to +200°F
Hardness: Rockwell 78 R
Shore D 70
Vacuum Rating: To 28" Hg
Higher Flow Rates & Working Pressure
Tolerances: 1/8'-1/4" +/- .004
3/4"-1/2" +/- .006

Applications

Pneumatic Tools
Pneumatic Piping
Instrumentation
Lube Lines
Coolants
Refrigeration
Chemical Transfer
Vacuum
Process Control
Fuel Lines
Paint Supply Lines
Laboratories

Part #'s shown are for natural. 500' and 1000' reels available on request.

100' LENGTH

BLACK TUBING & MISC.

METRIC LENGTH

100' LENGTH

PART #	TUBE O.D.	TUBE ID	TUBE WALL	WORKING PRESSURE	
973230	1/8"	0.08	.022	420	----
973231	5/32"	0.106	.025	350	----
973232	1/4"	0.18	.035	290	----
973238	1/4"	0.15	.05	800	----
973226	5/16"	0.236	.039	250	----
973233	3/8"	0.275	.050	250	----
973234	1/2"	0.375	.062	240	----

BLACK TUBING & MISC.

PART #	O.D.	TUBE ID	WALL	WORKING PRESSURE	
73230B	1/8	0.08	0.022	420	----
73231B	5/32	0.106	0.025	350	----
73232B	1/4	0.18	0.035	290	----
73238B	1/4	0.15	0.05	800	----
73233B	3/8	0.275	0.05	250	----
73232N5*	1/4	0.18	0.035	290	----
73238U**	1/4	0.15	0.075	800	----

• 500' Natural **Blue

*METRIC LENGTH - 100 ft. coils

• available in natural color only

PART #	MM O.D.	MM I.D.	MM WALL	WORKING PRESSURE	
973323	4	2.7	0.65	350	----
973326	6	3.5	1.25	350	----
973325	6	4	1	340	----
973327	8	6	1	250	----
973329	10	8	1	225	----
973332	12	10	1	200	----
973334	14	11	1.5	175	----

PVC POLYVINYLCHLORIDE TUBING – NSF61

PVC is suited for general, low-pressure, industrial applications for the conveyance of liquids and solids of suitable granular size. Made from a PVC compound that complies with FDA regulations. Although it is primarily intended for applications where pressure is not essential, it will withstand the pressures shown.

The clear PVC Tubing provides good chemical resistance, is lightweight, flexible and economically priced.

Features
- Lightweight
- Flexible
- Food Grade
- Clear Color/ Blue tint

Specifications
Temperature Range: +25°F to +150°F
Hardness: Shore A 75 PVC
Meets FDA requirements
NSF 61 Certified
USP Class VI rated materials
RoHS Compliant

Applications
Beverage Dispensing
Drain Tubing
Potable Water
Laboratory Tubing
Wine Transfer
Low Pressure Air Line
Distilled Water Transfer
Light Vacuum
Wire Harness
3:1 Burst Pressure

Colors Available: Clear

Package Lengths: 100'

100' LENGTH

PART #	TUBE I.D.	TUBE O.D.	TUBE WALL	WORKING PRESSURE	
973224	1/8 (.125)	1/4 (.25)	1/16 (.032)	50	----
973223	3/16 (.187)	5/16 (.313)	1/16 (.062)	55	----
973215	1/4 (.25)	3/8 (.375)	1/16 (.062)	55	----
973252	5/16 (.312)	7/16 (.438)	1/16 (.062)	50	----
973253	5/16 (.312)	1/2 (.500)	3/32 (.094)	55	----
973216	3/8 (.375)	1/2 (.500)	1/16 (.062)	45	----
973255	3/8 (.375)	5/8 (.625)	1/8 (.125)	55	----
973262	3/8 (.375)	9/16 (.563)	3/32 (.094)	50	----
973217	1/2 (.500)	5/8 (.625)	1/16 (.062)	30	----
973219	3/4 (.750)	1 (1.00)	1/8 (.125)	35	----
973221	1 (1.00)	1-1/4 (1.25)	1/8 (.125)	25	----

TUBE CUTTERS

MINI-TUBING CUTTER
• Great for tight places

Part #	Size	
990571	3mm-22mm (1/8"-7/8")	----

TUBING CUTTER

PART #	SIZE	
990570	1/8"-1-1/8"	----

PLASTIC TUBE CUTTER
Range: 1/8" - 3/8" I.D. (3mm-10mm)

PART #	DESCRIPTION	
91707	Cutter w/Blade	----

MOUNTING RACKS

- Route and secure multiple tubing lines
- Mounting versatility
  - Racks can be easily hand separated down to single holders.
  - Thru holes provided (all sizes)
- Standard color is BLACK.

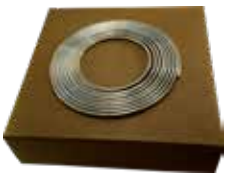
Other colors available on special request.

NOTE: MOUNTING SCREWS NOT PROVIDED

PART #	TUBING OD	DESCRIP.	CHANNELS	
28988	1/4	non-adhesive	10	----
28989	1/4	adhesive	10	----
28990	3/8	non-adhesive	7	----
28991	1/2	non-adhesive	5	----

ALUMINUM TUBING – EASY BEND

Alloy 3003-0 ASTM B-483



Material to ASTM B-483

900 PSI max
3700 Burst PSI

Bend this tubing into the shape you need without special tools or elbow fittings. It is also known as Alloy 3003. Tubing has seamless construction, which provides a smooth interior and allows it to be flared without splitting. Use with water, air, alcohol and oil. Tubing meets ASTM B483 and has a soft (annealed) temper. OD tolerance is ±0.004"

ALUMINUM VERSATUBE 50' COILS

PART #	O.D.	WALL THICK	ID	MAX PSI @ 100°F	CASE	50' COILS
972190	1/8	.025	.075"	2,300	10 coils	----
972191	3/16	.028	.132"	1,600	10 coils	----
972192	1/4	.032	.186"	1,400	10 coils	----
972193	5/16	.035	.243"	1,200	10 coils	----
972194	3/8	.035	.305"	1,000	10 coils	----
972195	1/2	.035	.43"	740	10 coils	----

COPPER TUBING – REFRIGERATION TUBING

ASTMB280

- Temp range: 32° to 400°F
- Bend with a bending tool
- Use with copper solder-connect fittings

This copper Alloy 122 tube comes cleaned and capped to prevent moisture and dirt from contaminating the inside. It's often called refrigeration and air conditioning tubing. Use with water, natural gas, oil and R22 refrigerant. Tubing meets ASTM B280. It has seamless construction, which provides a smooth interior. Tubing has a soft (annealed) temper.

REFRIGERATION COPPER TUBE 50' COILS

PART #	TUBE SIZE	OD	WALL	ID	MAX PSI @ 100°F	WEIGHT PER 50' COIL	50' COILS
972180	-	1/8	.030	.065"	3,000	1.74	----
972181	-	3/16	.030	.128"	1,900	2.88	----
972182	1/8	1/4	.030	.19"	1,400	4..02	----
972183	-	5/16	.032	.248"	1,100	5.45	----
972184	1/4	3/8	.032	.311"	980	6.70	----
972185	3/8	1/2	.032	.436"	720	9.10	----
972186	1/2	5/8	.035	.555"	610	12.55	----
972187	5/8	3/4	.035	.68'	510	15.25	----

COPPER TUBING - DRINKING WATER

For residential water lines

- Temp range: 32° to 180°F
- Bend with a bending tool
- Use with copper solder-connect fittings

NSF 61 certified for drinking (potable) water, this copper Alloy 122 tubing is also called type L. Tubing meets ASTM B88. It has seamless construction, which porovides a smooth interior. Coils - Have a soft (annealed) temper.

• Water service • Natural, liquified and petroleum gases • Fire protection • Solar • Fuel/ Fuel oil • HVAC • Snow melting - Air Brake

TYPE L SOFT COPPER TUBING 60' COILS

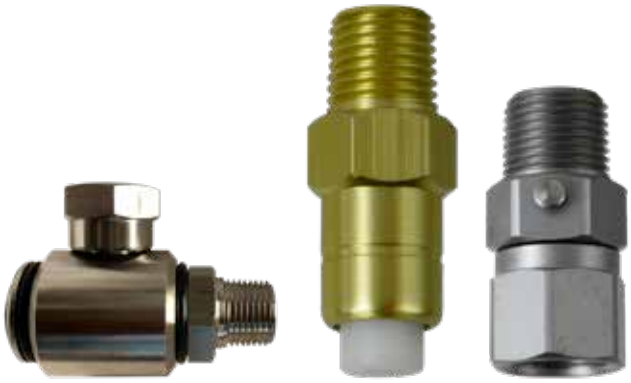
PART #	TUBE SIZE	OD	WALL	ID	MAX PSI @ 100°F	WEIGHT PER 60' COIL	60' COILS
972171	1/4	3/8"	.03"	.315"	910	7.56	----
972172	3/8	1/2	.035"	.43"	770	11.88	----
972173	1/2	5/8"	.04"	.545"	720	17.10	----

WARNING: This product can expose you to chemicals, including Lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HIGH PRESSURE SPRAYERS

STRAIGHT THROUGH QDS

FITTINGS AND SWIVELS



NOZZLES

SPRAY GUNS AND WANDS

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NOZZLES

QUICK DISCONNECT NOZZLE

0-degree red tip nozzle, 15-degree yellow tip nozzle, 25-degree green tip nozzle, 40-degree white tip nozzle, and 65-degree black tip detergent nozzle. All nozzles are 4000 PSI and stainless steel, except for detergent nozzle, which is 600 PSI and brass. All Nozzles are rated for temperatures up to 300°F. Nozzles attach with ¼" quick disconnect plug.

PART #	DEGREE OF SPRAY	GPM @ 4000PSI	
DX250030	0	3.0	----
DX251530	15	3.0	----
DX252530	25	3.0	----
DX254030	40	3.0	----
DX250040	0	4.0	----
DX251540	15	4.0	----
DX252540	25	4.0	----
DX254040	40	4.0	----
DX250050	0	5.0	----
DX251550	15	5.0	----
DX252550	25	5.0	----
DX254050	40	5.0	----
DX250060	0	6.0	----
DX251560	15	6.0	----
DX252560	25	6.0	----
DX254060	40	6.0	----
DX256500	65		----

MEG NOZZLE

Available in 0-degree nozzle, 15-degree nozzle, 25-degree nozzle, or 40-degree nozzle. Nozzle sizes 3.0, 4.0, 5.0, 6.0 or 7.0. All nozzles are 7250 PSI 300°F, stainless steel and ¼" male pipe thread.

PART #	DEGREE OF SPRAY	GPM @ 4000PSI	
DX140030MG	0	3.0	----
DX141530MG	15	3.0	----
DX142530MG	25	3.0	----
DX144030MG	40	3.0	----
DX140040MG	0	4.0	----
DX141540MG	15	4.0	----
DX142540MG	25	4.0	----
DX144040MG	40	4.0	----
DX140050MG	0	5.0	----
DX141550MG	15	5.0	----
DX142550MG	25	5.0	----
DX144050MG	40	5.0	----
DX140060MG	0	6.0	----
DX141560MG	15	6.0	----
DX142560MG	25	6.0	----
DX144060MG	40	6.0	----
DX140070MG	0	7.0	----
DX141570MG	15	7.0	----
DX142570MG	25	7.0	----
DX144070MG	40	7.0	----

QUICK DISCONNECT NOZZLE 5-PIECE KIT

PART #	GPM @ 4000PSI	
DX259520	2.0	----
DX259530	3.0	----
DX259540	4.0	----
DX259550	5.0	----
DX259560	6.0	----
DX259570	7.0	----

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SWIVELS

RUBBER-TIP TURBO NOZZLE

Rubber tip, rotating turbo nozzle, ¼" NPT with steel male quick disconnect plug adaptor, rated for temperatures up to 300°F.

PART #	PSI	GPM @ 4000PSI	
DX722530	2500	3.0	----
DX722540	2500	4.0	----
DX722550	2500	5.0	----
DX722560	2500	6.0	----
DX723230	3200	3.0	----
DX723240	3200	4.0	----
DX723250	3200	5.0	----
DX723260	3200	6.0	----
DX724030	4000	3.0	----
DX724040	4000	4.0	----
DX724050	4000	5.0	----
DX724060	4000	6.0	----
DX725030	5000	3.0	----
DX725040	5000	4.0	----
DX725050	5000	5.0	----
DX725060	5000	6.0	----

STAINLESS STEEL LIVE SWIVEL

MxF straight through live swivel, NBR or Viton seal, 416 SS, 10.6 gpm, 180F max, 3500 PSI

PART #	SEAL	SIZE	
DX60021	NBR	1/4"	----
DX60022	NBR	3/8"	----
DX60023	NBR	1/2"	----
DX60021V	Viton	1/4"	----
DX60022V	Viton	3/8"	----
DX60023V	Viton	1/2"	----

THERMAL RELIEF VALVE

140F Thermal Relief Valve, Brass, 300 PSI

PART #	SIZE	
DX35TR25	1/4"	----
DX35TR38	3/8"	----

90° BOOM SWIVEL

Male x Female 90° Boom swivel, Stainless Steel, 5000 PSI, 7GPM, 300°F

PART #	SIZE	
DX60092	3/8"	----

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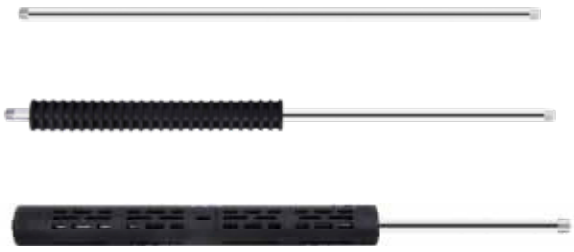
SPRAYERS

CHROMED STEEL WAND

1/4" MNPT x 1/4" Extension Wands, 10.5 GPM, 300F



PART #	SIZE	GRIP	
DX4324	24"	No Grip	----
DX4336	36"	No Grip	----
DX4424	24"	Molded Grip	----
DX4436	36"	Molded Grip	----
DX4524VG	24"	Vented Grip	----
DX4536VG	36"	Vented Grip	----

SPRAY GUN

Rear entry spray gun, 4000 PSI, 7 GPM, 212F max, inlet 3/8", outlet 1/4"

PART #	PRESSURE	FLOW	TEMPERATURE	
DX5090	4000	7	212	----
DX5022	4000	6.6	300	----
DX5005	5075	10.5	300	----

WEEPING SPRAY GUN

Rear entry spray gun, weeping, 5000 PSI, 10.5 GPM, 300F, , inlet 3/8", outlet 1/4"

Weep style spray guns allow for a continuous flow of water by way of a small hole in the bottom of the gun that produces a slight leak, or a weeping effect. This helps prevent lines freezing in cold weather or scalding water temperatures in hot weather that could damage the pumps.

PART #	
DX5006	----

SPRAY GUN WITH EXTENSION*

Rear entry spray gun with 12" extension, 4000psi, 7gpm, 300F max, inlet 3/8", outlet M22

PART #	
DX5190	----

SPRAY GUN WITH EXTENSION*

Rrear entry spray gun with 12" extension, 5075psi, 10.5gpm, 300F max, inlet 3/8", outlet M22

PART #	
DX5197	----

*Requires a 86-005 for MEG Nozzle and a 86-005 & 86-030 for QD Nozzle

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COUPLERS/ PLUGS
HIGH PRESSURE SPRAYER

QUICK DISCONNECTS

- Brass couplers have brass bodies and brass valves, 8 steel locking balls, Buna-N seal, and stainless steel springs
- Stainless steel couplers have stainless steel bodies, 8 stainless steel locking balls, Buna-N seal, and stainless steel springs
- Plugs are steel with green blue zinc plating or stainless steel
- Straight through design means there is no positive shut-off after disconnect
- Fully interchangeable with Parker, Hansen, Foster and Adams
- Use with liquids, hydraulic service, compressed air, gases, water and vacuum
- Ideal for applications such as high pressure water, steam washers, and carpet cleaners
- Max. Temp. 212°F for Couplers/ 300°F for Plugs
- Max Flow: 10.5 GPM

STRAIGHT THROUGH STYLE

MALE BRASS COUPLERS

PART #	BODY SIZE	THREAD SIZE	PSI	
86030	1/4	1/4	4000	----
86031	3/8	3/8	4000	----
86032	1/2	1/2	4000	----

FEMALE BRASS COUPLERS

PART #	BODY SIZE	THREAD SIZE	PSI	
86035	1/4	1/4	4000	----
86036	3/8	3/8	4000	----
86037	1/2	1/2	4000	----

MALE STAINLESS STEEL COUPLERS

PART #	BODY SIZE	THREAD SIZE	PSI	
86030SS	1/4	1/4	6000	----
86031SS	3/8	3/8	6000	----

FEMALE STAINLESS STEEL COUPLERS

PART #	BODY SIZE	THREAD SIZE	PSI	
86035SS	1/4	1/4	6000	----
86036SS	3/8	3/8	6000	----

MALE STEEL PLUGS

PART #	BODY SIZE	THREAD SIZE	PSI	
86040	1/4	1/4	4000	----
86041	3/8	3/8	4000	----
86042	1/2	1/2	4000	----

FEMALE STEEL PLUGS

PART #	BODY SIZE	THREAD SIZE	PSI	
86045	1/4	1/4	4000	----
86046	3/8	3/8	4000	----
86047	1/2	1/2	4000	----

MALE STAINLESS STEEL PLUGS

PART #	BODY SIZE	THREAD SIZE	PSI	
86040SS	1/4	1/4	6000	----
86041SS	3/8	3/8	6000	----

FEMALE STAINLESS STEEL PLUGS

PART #	BODY SIZE	THREAD SIZE	PSI	
86045SS	1/4	1/4	6000	----
86046SS	3/8	3/8	6000	----

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COUPLERS/ KNOBS
HIGH PRESSURE SPRAYER

MOLDED GRIP MALE BRASS COUPLER

PART #	THREAD SIZE	THREAD SIZE	PSI	
86030RG	1/4	1/4	4000	----
86031RG	3/8	3/8	4000	----

MOLDED GRIP FEMALE BRASS COUPLER

PART #	THREAD SIZE	PLUG	PSI	
86035RG	1/4	1/4	4000	----
86036RG	3/8	3/8	4000	----

M22 SCREW TYPE X MNPT

PART #	THREAD SIZE	MALE	PSI	
86001	M22	1/4	4000	----
86002	M22	3/8	4000	----

M22 SCREW TYPE X FNPT

PART #	THREAD SIZE	FEMALE SIZE	PSI	
86005	M22	1/4	4000	----
86006	M22	3/8	4000	----

INSUALTED KNOB

M22 INSULATED KNOB X MNPT

PART #	THREAD SIZE	MALE SIZE	PSI	
86012	M22	1/4	4000	----
86013	M22	3/8	4000	----

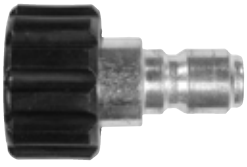
M22 INSULATED KNOB X FNPT

PART #	THREAD SIZE	FEMALE SIZE	PSI	
86017	M22	1/4	4000	----
86018	M22	3/8	4000	----

M22 X M22 FNPT

PART #	THREAD SIZE	THREAD SIZE	PSI	
86022	M22	M22	4000	----

M22 INSULATED KNOB X QC PLUG



PART #	THREAD SIZE	PLUG	PSI	
86020	M22	3/8	4000	----

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PNEUMATICS

1/4"	3/8"	1/2"	1/4"	1/4"	3/8"	1/4"	1/4"	3/8"
INDUSTRIAL INTERCHANGE			ARO	AUTO	AUTO	LINCOLN	STRAIGHT THRU	STRAIGHT THRU

QUICK DISCONNECTS

- Universal
- ARO 210
- Lincoln
- Industrial
- Automotive
- ST Series - High Flow

BREATHER VENTS, MUFFLERS

- Mufflers
- Snubbers
- In-line filters
- Breather vents
- Control valves
- Manifolds

PNEUMATIC ACCESSORIES

- Kits NEW
- Tire gauge
- Tank and vent valves
- Blow guns
- Air chucks
- Inflators

GAUGES

- Liquid filled & Dry
- Lower mount & center mount
- Water test
- Syphons

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INDUSTRIAL INTERCHANGE

- Couplers are brass or plated steel body with brass or steel valves, 6 steel locking balls, NBR seal and stainless steel springs

6 Steel locking balls (1/2" body size has 8 steel locking balls)

- Plugs are brass or steel with green blue zinc plating
- Industry standard design for compressed air, water, grease, paint, limited vacuum and limited gases
- Manual retract for connecting and disconnecting
- Maximum working pressure is 250 PSI

BRASS FEMALE COUPLER

PART#	BODY SIZE	THREAD SIZE	
28540	1/4"	1/4"	----
28541	1/4"	3/8"	----

BRASS MALE COUPLER

PART#	BODY SIZE	THREAD SIZE	
28552	1/4"	1/4"	----
28553	1/4"	3/8"	----

STEEL FEMALE COUPLER

PART#	BODY SIZE	THREAD SIZE	
28540S	1/4"	1/4"	----
28541S	1/4"	3/8"	----
98810	3/8"	1/4"	----
98811	3/8"	3/8"	----
98812	3/8"	1/2"	----
99812	1/2"	1/2"	----

STEEL MALE COUPLER

PART#	BODY SIZE	THREAD SIZE	
28552S	1/4"	1/4"	----
28553S	1/4"	3/8"	----
98823	3/8"	1/4"	----
98824	3/8"	3/8"	----
98825	3/8"	1/2"	----
99825	1/2"	1/2"	----
99826	1/2"	3/4"	----

BRASS HOSE ID COUPLER

PART#	BODY SIZE	BARB SIZE	
28562	1/4"	1/4"	----
28564	1/4"	3/8"	----

STEEL HOSE ID COUPLER

PART#	BODY SIZE	BARB SIZE	
28562S	1/4"	1/4"	----
28564S	1/4"	3/8"	----
98840	3/8"	1/4"	----
98841	3/8"	3/8"	----
99841	1/2"	3/8"	----
99843	1/2"	1/2"	----

BRASS PUSH-ON HOSE COUPLER

PART#	BODY SIZE	BARB SIZE	
28565	1/4"	1/4"	----
28566	1/4"	3/8"	----

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INDUSTRIAL
PNEUMATICS

STEEL PUSH-ON HOSE COUPLER

PART#	BODY SIZE	BARB SIZE	
28565S	1/4"	1/4"	----
28566S	1/4"	3/8"	----
98842	3/8"	3/8"	----

STEEL MALE PLUG

PART#	BODY SIZE	THREAD SIZE	
28545	1/4"	1/8"	----
28546	1/4"	1/4"	----
28547	1/4"	3/8"	----
98814	3/8"	1/4"	----
98815	3/8"	3/8"	----
99816	1/2"	1/2"	----
99817	1/2"	3/4"	----

STEEL FEMALE PLUG

PART#	BODY SIZE	THREAD SIZE	
28533	1/4"	1/8"	----
28534	1/4"	1/4"	----
28535	1/4"	3/8"	----
98801	3/8"	1/4"	----
98802	3/8"	3/8"	----
99803	1/2"	1/2"	----
99804	1/2"	3/4"	----

BRASS MALE PLUG

PART#	BODY SIZE	THREAD SIZE	
28546B	1/4"	1/4"	----

BRASS FEMALE PLUG

PART#	BODY SIZE	THREAD SIZE	
28534B	1/4"	1/4"	----

STEEL HOSE ID PLUG

PART#	BODY SIZE	BARB SIZE	
28557	1/4"	1/4"	----
28559	1/4"	3/8"	----
98828	3/8"	3/8"	----
99828	1/2"	3/8"	----
99830	1/2"	1/2"	----

STEEL PUSH-ON HOSE PLUG

PART#	BODY SIZE	BARB SIZE	
28558	1/4"	1/4"	----
28561	1/4"	3/8"	----
98830	3/8"	3/8"	----

STEEL SWIVEL MALE PLUG

PART#	BODY SIZE	THREAD SIZE	
320065	1/4"	1/4"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information, visit www.P65Warnings.ca.gov

UNIVERSAL SERIES COUPLERS

- Automatic Coupler means flow will cut off automatically at time of disconnect
- Brass Couplers have brass body and brass sleeve with brass valve, 6 steel locking balls, NBR seal and 6 stainless steel springs.
- Stainless Steel Couplers have stainless steel body and stainless steel sleeve with stainless steel valve, 6 steel locking balls, FKM seal, and stainless steel springs
- Coupler compatible with ARO 210, Parker Interchange and Industrial Interchange plugs
- Maximum working pressure is 250 PSI

BRASS MALE COUPLER

PART#	BODY SIZE	THREAD SIZE	
28579	1/4"	1/4"	----
28589	1/4"	3/8"	----

BRASS FEMALE COUPLER

PART#	BODY SIZE	THREAD SIZE	
28560	1/4"	1/4"	----

BRASS HOSE ID COUPLER

PART#	BODY SIZE	BARB SIZE	
28690	1/4"	1/4"	----
28691	1/4"	3/8"	----

STAINLESS STEEL MALE COUPLER

PART#	BODY SIZE	THREAD SIZE	
28579SS	1/4"	1/4"	----

STAINLESS STEEL FEMALE COUPLER

PART#	BODY SIZE	THREAD SIZE	
28560SS	1/4"	1/4"	----

STAINLESS STEEL INDUSTRIAL MALE PLUG

PART#	BODY SIZE	THREAD SIZE	
28546SS	1/4"	1/4"	----

STAINLESS STEEL INDUSTRIAL FEMALE PLUG

PART#	BODY SIZE	THREAD SIZE	
28534SS	1/4"	1/4"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ARO 210 INTERCHANGE

- Couplers have brass bodies and brass valves, 6 steel locking balls, NBR seal, and stainless steel springs
- Plugs are steel with green blue zinc plating
- Couplers have a full opening tubular valve for maximum flow and a built-in sleeve guard to minimize accidental disconnect
- Maximum working pressure is 250 PSI

MALE COUPLER

PART#	BODY SIZE	THREAD SIZE	
28592	1/4"	1/8"	----
28593	1/4"	1/4"	----
28594	1/4"	3/8"	----

MALE PLUG

PART#	BODY SIZE	THREAD SIZE	
28586	1/4"	1/8"	----
28587	1/4"	1/4"	----

FEMALE COUPLER

PART#	BODY SIZE	THREAD SIZE	
28583	1/4"	1/8"	----
28584	1/4"	1/4"	----
28585	1/4"	3/8"	----

FEMALE PLUG

PART#	BODY SIZE	THREAD SIZE	
28578	1/4"	1/4"	----

HOSE ID COUPLER

PART#	BODY SIZE	BARB SIZE	
28601	1/4"	1/4"	----
28603	1/4"	3/8"	----

HOSE ID PLUG

PART#	BODY SIZE	BARB SIZE	
28595	1/4"	1/4"	----
28597	1/4"	3/8"	----

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AUTOMOTIVE/ PARKER INTERCHANGE (TRU-FLATE)

- Brass couplers are brass bodies with brass valves, 6 steel locking balls, NBR seal, and stainless steel springs. Steel couplers are steel bodies with steel valves, 6 stainless steel locking balls, NBR seal, and stainless steel springs.
- Plugs are brass or steel with green blue zinc plating
- Unique design has been field proven as a long-lasting, high performance coupling especially when used with pneumatic tools
- Maximum working pressure is 300 PSI

BRASS MALE COUPLER

PART#	BODY SIZE	THREAD SIZE	
28515	1/4"	1/8"	----
28516	1/4"	1/4"	----
28517	1/4"	3/8"	----

BRASS FEMALE COUPLER

PART#	BODY SIZE	THREAD SIZE	
28507	1/4"	1/4"	----
28508	1/4"	3/8"	----

STEEL MALE COUPLER

PART#	BODY SIZE	THREAD SIZE	
28516S	1/4"	1/4"	----
28514S	3/8"	1/4"	----
28519S	3/8"	3/8"	----

STEEL FEMALE COUPLER

PART#	BODY SIZE	THREAD SIZE	
28507S	1/4"	1/4"	----
28525S	3/8"	1/4"	----
28526S	3/8"	3/8"	----

BRASS MALE PLUG

PART#	BODY SIZE	THREAD SIZE	
28510B	1/4"	1/4"	----

BRASS FEMALE PLUG

PART#	BODY SIZE	THREAD SIZE	
28501B	1/4"	1/4"	----

STEEL MALE PLUG

PART#	BODY SIZE	THREAD SIZE	
28509	1/4"	1/8"	----
28510	1/4"	1/4"	----
28511	1/4"	3/8"	----
28512	3/8"	1/4"	----
28513	3/8"	3/8"	----

STEEL FEMALE PLUG

PART#	BODY SIZE	THREAD SIZE	
28500	1/4"	1/8"	----
28501	1/4"	1/4"	----
28502	1/4"	3/8"	----
28503	3/8"	1/4"	----
28504	3/8"	3/8"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

AUTOMOTIVE/ PARKER INTERCHANGE

PNEUMATICS

HOSE ID COUPLER

PART#	BODY SIZE	BARB SIZE	
28528	1/4"	1/4"	----
28530	1/4"	3/8"	----
28536	3/8"	1/4"	----

HOSE ID PLUG

PART#	BODY SIZE	BARB SIZE	
28518	1/4"	1/4"	----
28520	1/4"	3/8"	----
28523	3/8"	1/4"	----
28524	3/8"	3/8"	----

PUSH-ON HOSE COUPLER

PART#	BODY SIZE	BARB SIZE	
28531	1/4"	1/4"	----
28532	1/4"	3/8"	----

PUSH-ON HOSE PLUG

PART#	BODY SIZE	BARB SIZE	
28521	1/4"	1/4"	----
28522	1/4"	3/8"	----

LINCOLN INTERCHANGE

- Couplers have brass bodies with steel sleeves, Acetal valves, 6 steel locking balls, Nitrile seal and stainless steel springs
- Plugs are steel with green blue zinc plating
- Manual style
- Unique design includes long nose and short ball groove
- Maximum working pressure is 250 PSI

MALE COUPLER

PART#	BODY SIZE	THREAD SIZE	
28683	1/4"	1/4"	----

STEEL MALE PLUG

PART#	BODY SIZE	THREAD SIZE	
28685	1/4"	1/8"	----
28686	1/4"	1/4"	----

FEMALE COUPLER

PART#	BODY SIZE	THREAD SIZE	
28684	1/4"	1/4"	----

STEEL FEMALE PLUG

PART#	BODY SIZE	THREAD SIZE	
28687	1/4"	1/4"	----

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ST SERIES...HIGH FLOW

SPECIFICATIONS

Brass - Coupler & Steel Plug	
Temperature Range	-40° to 250°

- Non-valved couplings for applications where maximum flow is required. Ideal for applications such as high pressure water and steam washers, carpet cleaners and mold coolant lines. They are often used in food processing, on fluid and dye transfer lines.
- Standard seals are Buna-N (Nitrile).

MALE PIPE COUPLER

BRASS

PART #	BODY & THREAD SIZE	
28667	1/8"	----
28665	1/4"	----
28666	3/8"	----
28668	1/2"	----
28669	3/4"	----
28670	1"	----

FEMALE PIPE COUPLER

BRASS

PART #	BODY & THREAD SIZE	
28671	1/8"	----
28651	1/4"	----
28652	3/8"	----
28672	1/2"	----
28673	3/4"	----

MALE PLUG

STEEL

PART #	SIZE	
28675	1/8"	----
28639	1/4"	----
28640	3/8"	----
28676	1/2"	----
28677	3/4"	----

FEMALE PLUG

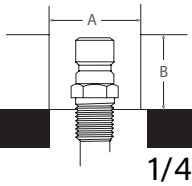
STEEL

PART #	SIZE	
28688	1/8"	----
28619	1/4"	----
28620	3/8"	----
28679	1/2"	----
28680	3/4"	----
28681	1"	----

MOLD COOLANT-LINE QUICK COUPLERS

OPERATING PRESSURE:
200 PSIG (14.06 Kg/sq. cm)
Standard Seal:
SILICONE: -90°F to 400°F (-68°C to + 205°C)

- Our coolant couplers are engineered for optimum speed and performance in connecting coolant lines to molds used for thermoplastic, thermosetting, blow molding, diecasting and on other types of tooling and equipment utilizing a constant fluid flow pumped through cooling channels.



MALE PLUG (BRASS)

1/4" BASIC SIZE

PART #	SIZE	A	B	
29900	1/8"	0.69	0.69	----
29901	1/4"	0.84	0.94	----
29902	3/8"	1.00	0.97	----

3/8" BASIC SIZE

PART #	SIZE	A	B	
29906	1/4"	1.00	0.94	----
29907	3/8"	1.00	1.13	----
29908	1/2"	1.81	1.25	----

1/2" BASIC SIZE

PART #	SIZE	A	B	
29911	1/2"	1.25	1.50	----
29912	3/4"	1.50	1.56	----

FEMALE PLUG (STEEL)

1/4" BASIC SIZE

PART #	SIZE	
29903	1/8"	----
29904	1/4"	----
29905	3/8"	----

3/8" BASIC SIZE

PART #	SIZE	
29909	1/4"	----
29910	3/8"	----

1/2" BASIC SIZE

PART #	SIZE	
29913	1/2"	----
29914	3/4"	----

MINI TYPE QUICK DISCONNECTS

MALE COUPLER

PART #	SIZE	
28605	1/8"	----

FEMALE PLUG

PART #	SIZE	
28608	1/8"	----

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MUFFLERS/ VENTS
PNEUMATICS

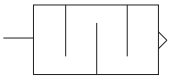
BRASS MUFFLERS

Materials:
Body: Brass
Element: Sintered Bronze
Max Operating Pressure: 300PSI
Temperature: 35° to 300°F
• Application: Designed to diffuse Air & Muffler noise to acceptable levels within OSHA noise requirements.
• Used on exhaust ports, valves, cylinders and air tools.
• Construction: Porous sintered bronze 40 micron filter element secured to a brass body

PART #	SIZE	
300020	10/32"	----
300021	1/8"	----
300022	1/4"	----
300023	3/8"	----
300024	1/2"	----
300026	3/4"	----
300028	1"	----

40 Micron element

STAINLESS MUFFLERS



Materials:
Body: 303 Grade Stainless Steel
Element: 316 Grade Stainless Steel
Max Operating Pressure: 300PSI
Temperature: 35° to 392°F

PART #	SIZE	
300031	10/32"	----
300032	1/8"	----
300033	1/4"	----
300034	3/8"	----
300035	1/2"	----
300036	3/4"	----
300037	1"	----

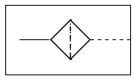
BRASS BREATHER VENT

Materials:
Body: Brass
Element: Sintered Bronze
Max Operating Pressure: 150PSI
Temperature: 35° to 300°F
• Application: Prevents Dirt and Foreign Particles from Entering Ports Open to Atmosphere. Typically used on Acting Cylinders
• Additional Use is Vacuum Relief or Pressure Equalization on Storage Vessels or Tanks
• Construction: Porous Sintered Bronzed 40 Micron Filter Element Secured to a brass body

PART #	SIZE	
300000	10-32"	----
300001	1/8"	----
300002	1/4"	----
300003	3/8"	----
300004	1/2"	----
300006	3/4"	----
300008	1"	----

40 Micron element

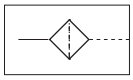
STAINLESS BREATHER VENT



Materials:
Body: 303 Grade Stainless Steel
Element:316 Grade Stainless Steel
Max Operating Pressure: 150PSI
Temperature: 35° to 390°F

PART #	SIZE	
300014	1/8"	----
300015	1/4"	----
300017	3/8"	----
300018	1/2"	----
300019	3/4"	----
300007	1"	----

PRESSURE SNUBBER

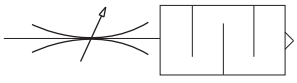


Materials:
Body: Brass
Element: Sintered Bronze
Max Operating Pressure: 9000PSI
Temperature: 35° to 300°F
• Applications: Protect pressure instruments from sudden pressure surges and fluctuations providing more accurate gauge readings
• Construction: Solid brass housing with porous bronze element
• Can be used for mini in-line filters
• 5 different porosity elements per package, allows each user to adjust snubbing capacity for the specific application

PART #	SIZE	POROSITY	
28354	1/4"	40 um	----
28353	1/4"	30 um	----
28352	1/4"	25 um	----
28351	1/4"	20 um	----
28350	1/4"	10 um	----

Recommended Element Porosity Rating		
Rating	Color	Recommended Application
40 um	None	Viscous Fluids (over 500 ssu)

SPEED CONTROL VALVE

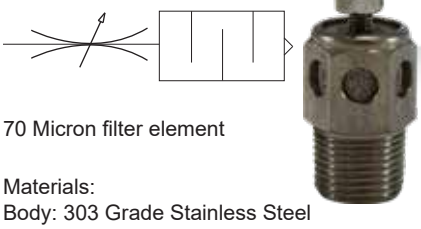


Materials:
Body: Brass
Element: 40 Micron Sintered Bronze
Max Operating Pressure: 300PSI
Temperature: 35° to 300°F
• Application: Provide infinite variation of metering air flow at acceptable sound levels on air valve exhaust ports with complete safety
• The speed of an operating cylinder or air tool may be increased or decreased with the adjusting screw, the final position is locked in place by a lock nut
• Objectionable exhaust air noise is eliminated by the surrounding sleeve - 40 µm sintered bronze
• Brass Body
• Max operating pressure: 300PSI
• Operating temperature: 35° F to 300° F

PART #	SIZE	
940800	1/8"	----
940801	1/4"	----
940803	3/8"	----
940804	1/2"	----
940805	3/4"	----
940806	1"	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STAINLESS SPEED CONTROL VALVE

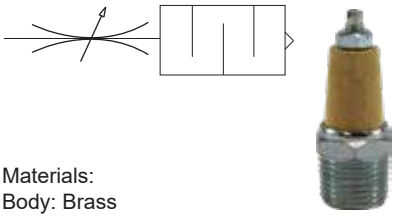


70 Micron filter element

Materials:
Body: 303 Grade Stainless Steel
Element: 316 Grade Stainless Steel
Max Operating Pressure: 300PSI
Temperature: 35° to 392°F

PART #	SIZE	
940810	1/8"	----
940811	1/4"	----
940812	3/8"	----
940813	1/2"	----
940814	3/4"	----
940815	1"	----

MUFFLER W/ FLOW ADJUSTMENT

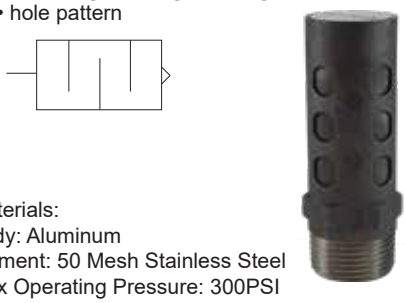


Materials:
Body: Brass
Element: Sintered Bronze
Max Operating Pressure: 300PSI
Temperature: 35° to 300°F

PART #	SIZE	
28379	1/8"	----
28380	1/4"	----
28381	3/8"	----
28382	1/2"	----

HIGH FLOW ALUMINUM MUFFLER

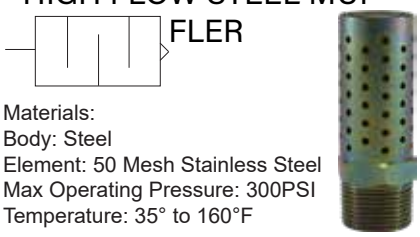
• hole pattern



Materials:
Body: Aluminum
Element: 50 Mesh Stainless Steel
Max Operating Pressure: 300PSI
Temperature: 35° to 160°F

PART #	SIZE	
940822	1/8"	----
940823	1/4"	----
940824	3/8"	----
940825	1/2"	----
940826	3/4"	----
940827	1"	----

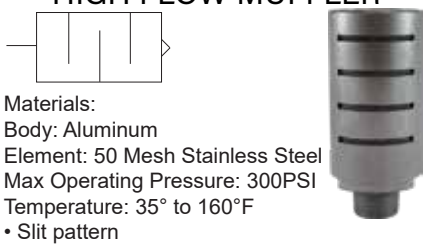
HIGH FLOW STEEL MUFFLER



Materials:
Body: Steel
Element: 50 Mesh Stainless Steel
Max Operating Pressure: 300PSI
Temperature: 35° to 160°F

PART #	SIZE	
28373	1/8"	----
28374	1/4"	----
28375	3/8"	----
28376	1/2"	----
28377	3/4"	----
28378	1"	----

ALUMINUM HIGH FLOW MUFFLER



Materials:
Body: Aluminum
Element: 50 Mesh Stainless Steel
Max Operating Pressure: 300PSI
Temperature: 35° to 160°F
• Slit pattern
• Application: Used exhaust ports of Pneumatic valves or manifolds to reduce work area noise
• Construction: Aluminum body, 50 mesh self cleaning stainless steel screen corrosion resistant aluminum shell
• High flow & minimal back pressure

PART #	SIZE	
28367	1/8"	----
28368	1/4"	----
28369	3/8"	----
28370	1/2"	----
28371	3/4"	----
28372	1"	----

PLASTIC HIGH FLOW MUFFLER

Materials:
Body: Black Nylon
Element:50 Mesh Stainless Steel
Max Operating Pressure: 150PSI
Temperature: 35° to 120°F

PART #	SIZE	
28363	1/8"	----
28364	1/4"	----
28365	3/8"	----
28366	1/2"	----

NIPPLE INLINE FILTER

Materials:
Body: Brass
Element: 40 Micron Sintered Bronze
Max Operating Pressure: 300PSI
Temperature: 35° to 300°F

PART #	SIZE	
940845	1/8"	----
940846	1/4"	----
940847	3/8"	----
940848	1/2"	----

REPAIRABLE AIR/ OIL INLINE FILTER

Materials:
Body: Anodized Aluminum
Element: 40 Micron Sintered Bronze
Max Operating Pressure: 300PSI
Temperature: 35° to 200°F
• Application: Protect small air tools i.e. impact wrench grinders, screwdrivers and low pressure hydraulic applications
• Construction: All anodized, lightweight aluminum housing
• Can be installed directly before the air tool
• Features cleanable or replaceable 40 micron filter element

PART #	SIZE	
940840	1/8"	----
940841	1/4"	----
940842	3/8"	----
940843	1/2"	----
940844	3/4"	----

What you feel inside reflects on your face. So be happy and positive all the time.

- Sridevi

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MANIFOLDS

CHROME PLATED BRASS MANIFOLDS

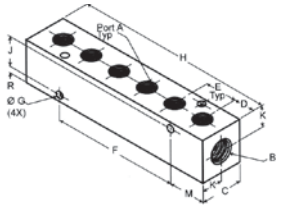
• 1/4" inlet and outlets

PART #	DESCRIPTION	
28444	2 Port	----
28445	3 Port	----
28446	4 Port	----

• 1/4" Inlet on each end

MANIFOLDS - ALUMINUM WITH BLACK ANODIZING

Materials:
Aluminum with black anodizing for corrosion resistance.
Specifications:
Max Operating Pressure: 1000PSI
Temperature: -10° to 200°F
Media: Air and liquids compatible with materials of construction.
• Ports column = # of ports in top of manifold



THREADED PORTS

Part #	Ports		A - out NPT	B - in NPT	C	D	E	F	G	H	J	K	M	R
28450	4	----	1/8"	1/4"	1.00	0.50	0.75	1.5	0.17	3.25	0.70	0.50	0.88	0.15
28452	6	----						3.00		4.75				
28456	10	----						6.00		7.75				
28457	2	----	1/4"	3/8"	1.25	0.63	0.88		0.20		0.89	0.63	1.06	0.18
28458	3	----						0.88		3.00				
28460	5	----						2.63		4.75				
28464	9	----						6.13		8.25				
28465	10	----						7.00		9.13				
28467	3	----	3/8"	3/8"	1.25	1.00	1.13	1.13	0.20	4.25	0.89	0.63	1.56	0.18
28468	4	----						2.25		5.38				
28469	5	----						3.38		6.50				
28470	6	----						4.50		7.63				

3 IN 1 ALUMINUM AIR MANIFOLD

No need to connect and disconnect every time you want to change tools. Supply 3 air tools from one outlet. These manifolds have one inlet with three 1/4 outlets.

PART #	SIZE	
320120	1/4" Inlet	----
320121	3/8" Inlet	----
320122	1/2" Inlet	----
	three 1/4" Outlets	

AIR REGULATOR

- Rated for Inlet Pressrue up to 140PSI(10bar).
- Ambient and Fluid Tempreature:5~60°C(41~140°F)
- Port Threads:NPT
- Flow Capacity:See Below,at 0.7Mpa Inlet Pressure and set at 0.5Mpa.
- Assembly Bracket is included.

PART #	SIZE	GAUGE PORT	REGULATING RANGE	
AR2	1/4"	1/8	0.05~0.85Mpa(0.5~8.5kgf/cm2)(7.25psi~123psi)	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAFETY VALVES

ASME CODED

• Valves are manufactured to ASME standards and certified by the national board of boiler and pressure vessel inspectors.
• Bubble tight to 10% of set pop-off pressure.
• ASME safety valves are interchangeable with all other ASME valves of same size and pressure.
• Brass construction. Marked ASME, NB
• 1/ Blister card.

PART #	MALE NPT	POP-OFF PRESSURE	AIR FLOW	
87001	1/4"	70 PSI	70 CFM	----
87002	1/4"	125 PSI	120 CFM	----
87003	1/4"	150 PSI	140 CFM	----
87004	1/4"	200 PSI	170 CFM	----

Note: Valve resets after pressure drops 50%

NON-CODED SAFETY RELIEF VALVES

• Non-coded safety valves are constructed of the same materials as the AMSE safety valves but are not national board certified and cannot be used on applications requiring ASME components.
• Valves are equipped with a lift ring for instant relief and are staked at the factory at the pre set pop-off pressure.
• Marked ASME, UV, NB

PART #	MALE NPT	POP-OFF PRESSURE	
87008	1/4"	125 PSI	----
87009	1/4"	150 PSI	----

Warning: These valves are not to be used on compressors with a capacity over 15 CFM or 3 HP or 12 gallon storage tank.

COMPRESSOR TANK CHECK VALVES

• Used in compressor tanks to prevent air volume and pressure from escaping back into compressor heads while the compressor is not operating.
• Brass body with Teflon poppet.
• 1/8" Female NPT side port for pressure switch application.
• Maximum working pressure: 450 PSI
• Maximum temperature: 400°F

PART #	TANK BUNG HOLE SIZE	COMPRESSOR AIR LINE SIZE	SCFM	
87020	1/2" NPT Male	3/8" Tube Compression male	20	----
87021	1/2" NPT Male	1/2" Tube Compression male	20	----
87023	1/2" NPT Male	1/2" NPT Female	20	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

TANK VALVES

MULTI-PURPOSE AIR VENT

PART #	SIZE	
46048	1/8"	----
46048S*	1/8" SS	----

#303 SS 705

BRASS BICYCLE PUMP FITTING

Screw on swivel chuck for most hand operated tire pumps.
Buna-N-Seal • Deflator

INT x 3/16 Barb

PART #	SIZE	
32782	3/16"	----

INFLATOR

INT x 3/16

PART #	SIZE	
32783	3/16"	----

PNEUMATIC SLIDE VALVE

- Max Operating Pressure: 200 psig
- Temperatures:-20°F to +200°F

Manually operated slide valves provide simple on/off airflow control. They can be mounted horizontally, vertically or at any angle.

Open Position

MALE X FEMALE

PART #	SIZE	L	HEX	
20780	1/8"	2.15	9/16"	----

INT = Inflation needle thread .305 in. OD x 32 threads per inch
(see page 371)

TANK & VENT VALVES

Three standard styles of valve bodies, complete with short core, for air lifts, water pumps, vacuum, pressurized containers, air jacks, and other pneumatic devices.
REGULAR: 300 PSI and cracking pressure 80 PSI

1/8" NPT - .9" LONG SPRING CORE

7/16" Hex 1/8 x INT

PART #	SIZE	
46620	1/8	----

1/8" NPT 1.207"LONG SPRING CORE

7/16" Hex 1/8 x INT

PART #	SIZE	
46621	1/8	----

1/4" NPT 1.46" LONG SPRING CORE

9/16" Hex w/ Black cap 1/4 x INT

PART #	SIZE	
46622	1/4	----

TANK VALVE ACCESSORIES

BLACK PLASTIC CAP

No gasket

Inflation needle theads

PART #	
46630	----

SHORT NICKEL PLATED DOME CAP

Dome skirted type

Inflation needle thead

PART #	
46631	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BLOW GUNS/ NOZZLES
PNEUMATICS

COMPACT BLOW GUN W/RUBBER TIP

- Includes One Rubber Tip and One Safety Tip
- Zinc Alloy Body
- 1/4" FPT Inlet
- Maximum 150 psi (Recommended Working Pressure 90-120 psi)
- Safety Tip Limits Air Pressure to 30 psi When Dead-Ended per OSHA requirement
- Maximum 87 dba
- 1/8" Outlet

PART #	SIZE	
320053	1/4"	----

SAFETY BLOW GUN

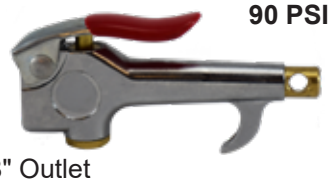
- Heavy-Duty Design
- Internal Safety Valve that Limits Air Pressure to Less than 30 psi When dead-ended per OSHA
- Aluminium Alloy Body
- 1/4" FPT Inlet
- Maximum 150 psi (Recommended Working Pressure 90-120 psi)
- Safety Tip Limits Air Pressure to 30 psi When Dead-Ended per OSHA Requirement
- Maximum 87 dba
- 1/8" Outlet

PART #	SIZE	
320054	1/4"	----

SAFETY BLOW GUN

- N/P steel handle with plastic sleeve
- Brass Valve
- Zinc body
- Aluminum nozzle

90 PSI



1/8" Outlet

PART #	SIZE	
320050	1/4" Inlet	----

5114 51-124 401 20430AD S148 D204-30 6475

COMPACT BLOW GUN

- With standard tip and safety tip
- Zinc Alloy Body
- 1/4" FPT Inlet
- Maximum 150 psi (Recommended Working Pressure 90-120 psi)
- Safety Tip Limits Air Pressure to 30 psi When Dead-Ended per OSHA Requirement
- Maximum 87 dba

PART #	SIZE	
320055	1/4"	----

PISTOL GRIP BLOW GUN

- Lightweight, Ergonomic Design
- Delrin® Body
- Trigger Air Flow Control
- 1/4" FPT Inlet
- 3" Nozzle Ideal for Tight Spaces
- Recommended Working Pressure 90-120 psi
- Maximum 87 Dba

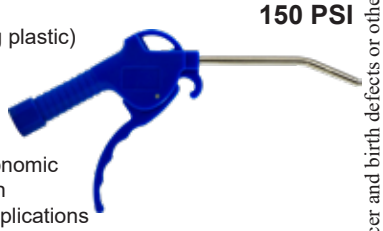
PART #	SIZE	
320036	1/4"	----

PISTOL GRIP BLO-GUN

150 PSI

Material
- Body: POM (engineering plastic)
- Nozzle: nickel plated carbon steel
- Blue Handle Color

Features
- Simple construction, economic
- Global thread connection
- Durable and versatile applications
- 4 inch nozzle



PART #	SIZE	
320035	1/4"	----

RUBBER TIPPED NOZZLE

MAKES POSITIVE SEAL BETWEEN GUN AND FUEL LINE OR OTHER OPENINGS. USE ONLY ON AIR

PART #	THREAD SIZE	
320070	1/8 - 27	----

51-521 2058 D201RT 411R

HIGH FLOW SAFETY NOZZLE

MEETS OSHA REGULATIONS OF 30 PSI MAXIMUM OUTLET PRESSURE WHEN LINE PRESSURE IS 150 PSI OR LESS. HAS AN AIR PRESSURE BYPASS WHICH PREVENTS BUILD UP OF TIP PRESSURE EVEN IF NOZZLE IS BLOCKED. ADAPTS TO ANY BLOW GUN WITH A 1/8" NPT NOZZLE PORT

PART #	SIZE	
320075	1/8 MIP x Female Neelde Thread	----

51-338 SST10 411BT 2056

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

TIRE GAUGES

M - TIRE GAUGE

320-021

HEAVY DUTY DUAL FOOT TIRE GAUGE

320-022

DUAL ANGLE FOOT TRUCK PENCIL GAUGE

320-023

PART #	PRESSURE RANGE	INCREMENT	HEAD	BODY	BAR(PSI/KPA)	
320021	20-120psi	2 psi	Metal	Metal	4 sided plastic	----
320022	10-120psi	2 psi	Plastic	Metal	4 sided plastic	----
320023	20-120psi	2 psi	Metal	Metal	4 sided plastic	----

INFLATION NEEDLE

• See thread note below

PART #	
320095	----

1 PIECE BLOW GUN TAPERED NOZZLE

PART #	SIZE	
320076	NT	----

1 PIECE BLOW GUN STANDARD NOZZLE

PART #	SIZE	
320077		----

VOLUME REGULATOR

PART #	FIP X MIP	
46615	1/4	----

What size thread is an inflation needle (INT)?
Metric: 7.7mm OD, thread reoot diameter is 6.9mm x 0.794 pitch
English: 0.305 OD, threadroot diameter 0.302 in x 32 tpi (threads per inch)

1 PIECE DIAL TIRE GAUGE

PART #	
320410	----

1 PIECE EXTENSION

PART #	SIZE	
320080	NT	----

1 PIECE BLOW GUN ADAPTER

PART #	SIZE	
320078	Female NT x 1/8 MPT	----

NYLON COIL AIR HOSE

- 200 psi working pressure
- 4:1 Safety factor (burst vs working pressure)
- Spring end sleeves to prevent kinking
- 1/4 MPT Brass fittings on both ends
- Temperature range 32°F to 120°F
- Packaged for retail sale

PART #	DESCRIPTION	SIZE	
307030	25'	1/4" NPT	----
307031	50'	1/4" NPT	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FOOT CHUCKS

HEX BALL FOOT CHUCK

PART #		
46600	1/4 FPT Live Air	----

MALE BALL FOOT CHUCK

PART #		
46605	1/4 MIP Live Air	----

BALL FOOT CHUCK W/ 1/4 ID HOSE BARB

PART #		
46607	1/4 ID Live Air	----

DUAL HEAD STRAIGHT AIR CHUCK

DUAL HEAD AIR CHUCK 1/4"FNPT,THE LENGTH IS 6.08",THE HEAD IS ZINC-ALLOY,AND THE NUT IS BRASS WITH CHROME PLATED.

PART #		
320000	1/4	----

DUAL HEAD ANGLE FOOT AIR CHUCK

DUAL HEAD STRAIGHT FOOT AIR CHUCK 1/4"FNPT FOR INNER DUALS;BOTH ENDS LOCK ON VALVE CORE THREADS,THE LENGTH IS 6.66",THE HEAD IS ZINC-ALLOY,AND THE NUT IS

PART #		
320005	1/4	----

INFLATORS WITH GAUGE

INFLATOR/ GAUGE

- RUGGED ZINC CAST BODY WITH BRASS INTERNALS FOR LONG LIFE
- SOLID BRASS GAUGE BAR
- BUILT-IN AIR RELIEF VALVE

320-010

INFLATOR/ GAUGE

- RUGGED ZINC CAST BODY WITH BRASS INTERNALS FOR LONG LIFE
- EASY TO VIEW BUILT-IN SIGHT GAUGE
- FULL SWIVEL HOSE FITTINGS
- PROTECTIVE RUBBER BUMPER
- BUILT-IN AIR RELIEF VALVE
- 6"DUAL-FOOT AIR CHUCK

320-011

PART #	PRESSURE RANGE	INCREMENT	INLET	HOSE LENGTH	
320010	10-120 psi	2 psi	1/4 FPT	12"	----
320011	10-120 psi	2 psi	1/4 FPT	12"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

AIR ACCESSORY SET
PNEUMATICS

16PCS-AIR ACCESSORY SET
PART# 87-400

LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4"FNPT industrial coupler	28540
2pcs-1/4"FNPT industrial plugs	28534
2pcs-1/4"MNPT industrial plugs	28546
1pc-1/4" male connector	28212
1pc-1/4" double female connector	28059
1pc-ball foot chuck	46600
1pc-blow gun	320050
1pc-dial tire gauge	320410
1pc-tapered rubber tip	320070
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
2pcs-inflation needles	320095
1pc-25ft. nylon recoil hose	307030

10PCS-AIR ACCESSORY SET
PART# 87-402

LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4"female connector	28059
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-ball foot chuck	46605
1pc-blow gun	320050
1pc-1/4"FNPT industrial coupler	28540
1pc-1/4" FNPT industrial plug	28534
1pc-1/4"MNPT industrial plug	28546
2pcs-inflation needles	320095

7PCS-AIR ACCESSORY SET
PART# 87-404

LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-blow gun rubber tip	320070
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-extension	320080
1pc-blow gun	320050
2pcs-inflation needles	320095

11PCS-AIR ACCESSORY SET
PART# 87-406

LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-blow gun rubber tip	320070
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-blow gun standard nozzle	320077
1pc-blow gun adapter	320078
1pc-hose&chuck assembly	320414
1pc-blow gun	320050
1pc-inflation needle	320095
1pc-1/4"FNPT industrial coupler	28540
1pc-1/4" FNPT industrial plug	28534
1pc-1/4"MNPT industrial plug	28546

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

AIR ACCESSORY SET
PNEUMATICS

17PCS-AIR ACCESSORY SET
PART# 87-408

LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4" double female connector	50004
2pcs-1/4" double male connectors	54044
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-dual-foot tire chuck	320005
1pc-tire gauge	320021
1pc-blow gun	320050
1pc-1/4" FNPT industrial coupler	28540S
2pcs-1/4" FNPT industrial plug	28534
4pcs-1/4" MNPT industrial plug	28546
2pcs-inflation needles	320095

12PCS-AIR ACCESSORY SET
PART# 87-410

LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-blow gun rubber nozzle	320070
1pc-ball foot tire chuck	46600
1pc-blow gun	320050
1pc-1/4"FNPT industrial coupler	28540
1pc-1/4" MNPT industrial coupler	28552
2pcs-1/4"FNPT industrial plug	28534B
2pcs-1/4"MNPT industrail plug	28546B
1pc-inflation needle	320095

20PCS-AIR ACCESSORY SET
PART# 87-412

LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-dual-foot tire chuck	320005
1pc-tire gauge	320021
1pc-blow gun rubber nozzle	320070
1pc-blow gun adapter	320078
1pc-1/4" double male connector	54044
1pc-1/4" double female connector	50004
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-thread seal tape	982107
1pc-blow gun	320050
2pcs-1/4"FNPT industrial coupler	28540S
2pcs-1/4"FNPT industrial plug	28534
3pcs-1/4"MNPT industrial plug	28546
2pcs-inflation needles	320095
1pc-1/4"x 25Ft coil Nylon hose	307030

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

QUICK DISCONNECT KITS
PNEUMATICS

1/4" X 1/4" NPT INDUSTRIAL 7PCS

PART# 87-414

LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
2pc-1/4"x1/4" FNPT T I/M coupler	28540S
2pcs-1/4"x1/4" FNPT I/M plugs	28534
2pcs-1/4"x1/4"MNPT I/M plugs	28546
1pc-double 1/4" MNPT fitting	54044

1/4" X 1/4" NPT INDUSTRIAL 5PCS

PART# 87-416

LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4"x1/4"FNPT I/M coupler	28540S
4pc-1/4"X1/4" MNPT I/M plug	28546

1/4" X 1/4" NPT INDUSTRIAL 5PCS

PART# 87-418

LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4"x1/4"FNPT I/M coupler	28540S
1pc-1/4"x1/4"FNPT I/M plug	28534
1pc-1/4"X1/4" MNPT I/M plug	28546
1pc-double 1/4" MNPT fitting	54044

1/4" X 1/4" NPT INDUSTRIAL 3PCS

PART# 87-420

LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4"x1/4" FNPT I/M coupler	28540S
1pc-1/4"x1/4" FNPT I/M plug	28534
1pc-1/4"x1/4" MNPT I/M plug	28546

3/8" X 1/4" NPT AUTOMOTIVE 5PCS KIT

PART# 87-422

LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-3/8"x1/4" FNPT Automotive coupler	28525S
2pcs-3/8"x1/4"MNPT Automotive plugs	28512
1pc-double 1/4"MNPT fitting	28212
1pc-double 1/4"FNPT fitting	28059

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GAUGES

STANDARD DRY GAUGES

STEEL CASE

All the gauges supplied by us. are designed for long, reliable service under rugged conditions.
Typical applications include compressors, filter regulators, water pumps, beverage dispensing equipment, hydraulic and pneumatic systems, and other applications, where the media does not corrode brass. ALL CONNECTIONS ARE BRASS.

1-1/2" FACE
1/8" NPT LOWER MOUNT

PART #	PSI	
80501	0-15	----
80502	0-30	----
80503	0-60	----
80504	0-100	----
80505	0-160	----
80506	0-200	----

LOWER MOUNT

• Plastic lens (window)

2" FACE
1/4" LOWER MOUNT

PART #	PSI	
80001	0-15	----
80002	0-30	----
80003	0-60	----
80004	0-100	----
80005	0-160	----
80006	0-200	----
80007	0-300	----
80020	30-0 Vacuum	----

2-1/2" FACE
1/4" LOWER MOUNT

PART #	PSI	
80031	0-15	----
80032	0-30	----
80033	0-60	----
80034	0-100	----
80035	0-160	----
80036	0-200	----

1-1/2" FACE
1/8" NPT CENTER BACK MOUNT

PART #	PSI	
80511	0-15	----
80512	0-30	----
80513	0-60	----
80514	0-100	----
80515	0-160	----
80516	0-200	----

CENTER BACK MOUNT

2" FACE
1/4" CENTER BACK MOUNT

PART #	PSI	
80301	0-15	----
80302	0-30	----
80303	0-60	----
80304	0-100	----
80305	0-160	----
80306	0-200	----
80307	0-300	----

2-1/2" FACE
1/4" CENTER BACK MOUNT

PART #	PSI	
80331	0-15	----
80332	0-30	----
80333	0-60	----
80334	0-100	----
80335	0-160	----
80336	0-200	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LIQUID FILLED GAUGES

STAINLESS CASE

Liquid filled gauges enhance the reliability and integrity of the measuring system for long periods. The glycerine filling helps dampen the effects of vibration and pulsation. It also lubricates the movement which extends the life of the gauge. ALL

1-1/2" FACE
1/8" LOWER MOUNT

PART #	PSI	
80601	0-15	----
80602	0-30	----
80603	0-60	----
80604	0-100	----
80605	0-160	----
80606	0-200	----

It's not the situation, but whether we react negative or respond positive to the situation that is important.

- Zig Ziglar

- Liquid Filled Gauges with a stainless case are used for protection in harsh environments.
- Stainless Steel Case
- Copper Alloy Wetted parts
- Polycarbonate window
- ± 1.5% of span accuracy
- Temp. Range -104°F to 158°F

2-1/2" FACE
1/4" LOWER MOUNT

PART #	PSI	
80061	0-15	----
80062	0-30	----
80063	0-60	----
80064	0-100	----
80065	0-160	----
80066	0-200	----
80067	0-300	----
80068	0-400	----
80069	0-600	----
80100	0-1000	----
80101	0-1500	----
80102	0-2000	----
80103	0-3000	----
80104	0-5000	----
80105	0-10000	----
80080	30-0 Vacuum	----
80081	-30 to +30	----

4" FACE
1/4" LOWER MOUNT

PART #	PSI	
80463	0-100	----

CENTER BACK MOUNT

1-1/2" FACE
1/8" CENTER BACK MOUNT

PART #	PSI	
80611	0-15	----
80612	0-30	----
80613	0-60	----
80614	0-100	----
80615	0-160	----
80616	0-200	----

2-1/2" FACE
1/4" CENTER BACK MOUNT

PART #	PSI	
80201	0-15	----
80202	0-30	----
80204	0-60	----
80203	0-160	----
80205	0-100	----
80206	0-200	----
80207	0-300	----
80208	0-400	----
80209	0-600	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

Water Test Gauge

**0-300 PSI DIAL
3/4" FEMALE HOSE
CONNECTION**

PART #	FACE SIZE	
991249	2"	----
991250	2-1/2"	----

Water Test Gauge w/Lazy Hand (Maximum pointer)

**2-1/2" GAUGE
0-300 PSI DIAL
3/4" FEMALE HOSE
CONNECTION**

Regular pressure hand pushes LAZY hand to peak operating or surge pressure point where it remains until you manually reset it. Excellent to determine if P/T valve is leaking from failure or if leaking is caused by surge of excessive pressures. (Attach gauge to Boiler Drain Valve overnight.) LAZY hand operates over entire gauge range of 0-300psi

PART #	
991251	----

GAS TEST GAUGE

Pressure test residential and commerical pipe systems

PART #	FACE SIZE	
GT15	0-15	----
GT30	0-30	----
GT60	0-60	----

BODY ONLY

PART #	FACE SIZE	
991259	3/4" FIP x 1/4" TAP	----

SYPHON

BRASS

Syphons protect instruments from effects of hot pressure media commonly used in steam applications

PART #	SIZE	
995210	1/4" 90°	----
995211	1/4" 180°	----
995212	1/4" 270°	----
995213	1/4" 360°	----

STEEL

Syphons protect instruments from effects of hot pressure media commonly used in steam applications

PART #	SIZE	
995214	1/4" 90°	----
995215	1/4" 180°	----
995216	1/4" 270°	----
995217	1/4" 360°	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

TAPES/ SEALANT

PNEUMATICS

PTFE THREAD SEAL TAPE

- Density 0.4
- Thickness 3.5 MIL
- Meets MIL specs T-27730A

PART #	SIZE	CASE QTY	
982107	1/2" x 260"	500	----
982108	1/2" x 520"	500	----
982109	3/4" x 260"	350	----
982110	3/4" x 520"	350	----

POP OUT COVERED SPOOL

GREY STAINLESS STEEL

- Density 1.2
- Thickness 4MIL
- Meets MIL specs T-27730A & CID A-A 58092

PART #	SIZE	CASE QTY	
982135	1/2" x 260"	250	----
982136	1/2" x 520"	150	----
982137	3/4" x 260"	150	----
982138	3/4" x 520"	150	----

GREEN OXYGEN TAPE

- Density 1.2
- Thickness 3.5MIL
- Meets MIL specs T-27730A & CID A-A 58092

PART #	SIZE	CASE QTY	
982130	1/2" x 260"	250	----
982131	1/2" x 520"	150	----
982132	3/4" x 520"	150	----

PTFE BLUE SEAL TAPE

- Professional grade top -450 to +450°F
- Super long roll
- Twice the density of standard tape for less passes, lasts longer
- Density 0.8
- Thickness 3.5 MIL
- Meets MIL Spec T-27730A

PART #	SIZE	CASE QTY	
982120	1/2" x 1368"	250	----
982121	3/4" x 1368"	150	----
982122	1" x 1296"	150	----

YELLOW GAS LINE TAPE

- Density 0.9
- Thickness 4MIL
- Meets MIL specs T-27730A

PART #	SIZE	CASE QTY	
982125	1/2" x 260"	250	----
982126	1/2" x 520"	150	----

PVC ELECTRICAL TAPE

Rated to 176 degrees fahrenheit
Suitable for use up to 600V
UL Listed
Individually wrapped in cellophane

PART #	SIZE	
982140	3/4" X 60' Black	----

THREAD SEALANT

GASOILA SOFT-SET THREAD WITH PTFE

PART#	SIZE	UNITS PER CASE	
983100	1/4 pt. Brush	24	----
983101	1/2 pt. Brush	24	----

PLS 2 PREMIUM THREAD AND GASKET SEALER

PART#	SIZE	UNITS PER CASE	
983110	1/4 pt. Brush	12	----
983111	1 pt. Brush	6	----

GASOILA NT NON-PTFE THREAD SEALANT

PART#	SIZE	UNITS PER CASE	
983120	1/2 pt. Brush	12	----
983121	1 pt. Brush	6	----

JC-30 GASOILA HIGH-FILL

PART#	SIZE	UNITS PER CASE	
983115	1/4 pt. Brush	12	----
983116	1 pt. Brush	6	----

FREE ALL DEEP PENETRATING OIL

PART#	SIZE	UNITS PER CASE	
983125	6 oz. Aerosol	12	----
983126	11 oz. Aerosol	12	----

LUBE-IT ALL DEEP LUBRI-

PART#	SIZE	UNITS PER CASE	
983130	6 oz. Aerosol	12	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

TRUCK AND TRAILER

INDUSTRY GRADE NYLON AIR COIL ASSEMBLY - SET

- Each kit contains one Emergency (Red) and one service (Blue) 1/2" O.D. nylon tubing assembly.
- 1/2" -14 NPTF end fitting with heavy gauge spring.
- Assemblies meet SAE J844 and DOT FMVSS 106 requirements.
- Temp rating -40° - +208°

PART #	LENGTH	PIGTAIL LENGTH TRACTOR END	PIGTAIL LENGTH TRAILER END	
39404	12'	6"	6"	----
39400	15'	12"	12"	----
39402	15'	40"	12"	----
39406	20'	12"	12"	----

FIFTH WHEEL SLIDER COIL

- Temperatures range -40 to 208°F
- 150 psi max pressure rating
- Meets SAE J844 and DOT FMVSS 106 requirements.
- (2) ¼" OD fittings assembled

PART #	DESCRIPTION	LENGTH	FITTINGS	
39839	5th Wheel slider coil	up to 54"	(2) 1/4" MPT	----
39838	5th Wheel slider coil	up to 72"	(2) 1/4" MPT	----

3-IN-1 AND 4-IN-1 COMBINATION AIRLINE CABLE

- (2) 3/8" ID SAE J1402 rubber service and emergency with blue (service) and red (emergency) gladhand grip handle
- Color-coded grip helps to minimize incorrect tractor/trailer connections have glad handle with Vibraseal
- ABS power line (green) – meets SAE J2222 requirements
- Auxiliary power line (yellow) – fitted with SAESS60 plugs that have an inverted (male) ground pin 4-in-1 only
- SAE J560 Plugs with sleeves for superior corrosion protection and strain relief
- Corrosion resistant all brass fittings 1/2" male NPT w/ Vibraseal
- Tapered grip flexes with airline during tight turns for kink protection
- Temp rating -40 - 208°F

PART #	DESCRIPTION	
39825	Combo 3 in 1 assembly 15 ft.	----
39962	Combo 4 in 1 assembly 15 ft.	----

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HOSE SUPPORT

AIRBRAKE HOSE REPAIR KIT

- Fittings to repair hose with a minimum 3/4" OD
- Meets DOT 106 SAE j1402
- Brass sleeve and barb
- Pre-applied sealant

PART #	DESCRIPTION	
39855	3/8" Quick fix hose fitting	----
*39856	3/8" Quick fix hose kit- clam pack	----
39857	1/2" Quick fix hose fitting	----

*Supplied with hex tool

39425

39426

POGO STICKS CANNISTER STYLE

- Large diameter housing eliminates spring binding
- Increased resistance to sagging and bending
- Thick gauge heavy duty spring
- Used for all nylon and rubber air brake hose
- Forged steel mounting stud 7/16-20 thread
- All Pogo Sticks include Eyebolt and Nut

PART #	SIZE	DESCRIPTION	
39425	40"	Chrome finish	----
39426	40"	Zinc Plated Steel	----

39409

39410

39411

39413

39416

39412

HOSE HOLDERS

- ABS Plastic
- 2, 3 and 4 Hold

PART #	SIZE	DESCRIPTION	
39409	1/2"	2-Hose Holder Hex Head	----
39410	1/2"	2-Hose Holder	----
39411	1/2"	3-Hose Holder	----
39413	1/2"	3-Hose Hex Head w Cable tie	----
39416	1/2"	4-Hose V Bolt w Cable Tie	----
39412	1/2"	4-Hose Holder	----

39415

39418

HOSE SEPARATORS

- ABS Plastic

PART #	SIZE	DESCRIPTION	
39414	3/8"	2-Hose Separator	----
39415	3/8"	4-Hose Separator	----
39418	1/2"	2-Hose Separator	----
39419	1/2"	4-Hose Separator	----

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39469

39472

39473

39411

TENDER KIT COMPONENTS

PART #	DESCRIPTION	
39411	3 hole holder	----
39469	Clip Carabiner	----
39472	1-1/2" ID Hanger Bracket	----
39473	Yoke	----

• Sold individually

39477

39471

39463

SPRING WITH TANDEM FRAME CLIP

- Steel spring and clip - yellow dichromate finish
- 3/4" OD
- Beam clip

PART #	DESCRIPTION	
39477	Frame Clip with Cable Tie	----

PART #	LENGTH	DESCRIPTION	
39463	6" Spring	Tandem frame clip	----
39464	3" Spring	Tandem frame clip	----
39471	Frame clip only		----

95631

95640

CLIPS

PART #	DESCRIPTION	
95631	ABS Clip for 1/2" Air Hose	----
95640	5" Axle Clip	----
95641	5-3/4" Axle Clip	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

HOSE SUPPORT
TRUCK AND TRAILER

TENDER KIT

Complete Tender Kit includes:
- Large snap Clip
- Heavy duty spring
- Protective tube

PART #	SPRING & TUBE LENGTH/ #PCS	ONE CLIP	3 HOLE CLAMP	YOKE	
39442	16" / 1pc	1pc	1pc		----
39444	16" / 2 pcs	1pc	1pc	2pcs	----
39446	20"/ 1pc	1pc	1pc		----
39448	20"/ 2pcs	1pc	1pc	2pcs	----
39452	25" / 1pc	1pc	1pc		----
39453	25" / 2pcs	1pc	1pc	2pcs	----

HYDRAULIC TENDER KIT

PART #	SPRING & TUBE LENGTH/ #PCS	LARGE CLIP	HANGER BRACKET	YOKE	
39457	25" / 2pcs	1pcs	1pc	2pcs	----

SLIDER BAR KITS

PART #	SPRING & TUBE LENGTH/ #PCS	LARGE CLIP	3 HOLE CLAMP	SLIDER BAR LENGTH	YOKE	
39437	16" / 1pc	1pc	1pc	43"		----
39438	16" / 2pcs	1pc	1pc	43"	2pcs	----
39459	20"/ 2pcs	1pc	1pc	43"	2pcs	----
39460	25" / 1pc	1pc	1pc	43"		----
39461	25" / 2pcs	1pc	1pc	43"	2pcs	----
39470	16" / 1pc	1pc	1pc	38"		----
39462	16" / 2pcs	1pc	1pc	38"	2pcs	----
39451	25" / 1pc	1pc	1pc	38"		----
39454	25" / 2pcs	1pc	1pc	38"	2pcs	----

Spring & Tube

Slider Bar

BARS, SPRINGS, TUBES

PART #	SPRING & TUBE LENGTH/ #PCS	
39443	16" Tube only	----
39447	20" Tube only	----
39436	25" Tube only	----
39466	16" Spring only	----
39467	20" Spring only	----
39468	25" Spring only	----
39474	38" Slider Bar	----
39475	43" Slider Bar	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

GLADHANDS

PORT A

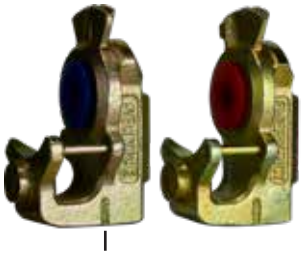
ALUMINUM GLADHANDS

- **½ " FPT port**
- Aluminum Casting
- Permanent Clamp Screw
- Black rubber seals
- Stainless Steel filter
- Meet SAE J318 requirements

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	PORT A	
39870	Universal	Aluminum	Blk Rubber	No	1/2"	----
39871	Universal with filter	Aluminum	Blk Rubber	Yes	1/2"	----
39877	Emergency Red	Aluminum	Blk Rubber	No	1/2"	----
39878	Emergency with filter	Aluminum	Blk Rubber	Yes	1/2"	----
39874	Service Blue	Aluminum	Blk Rubber	No	1/2"	----
39875	Service with filter	Aluminum	Blk Rubber	Yes	1/2"	----

PLATED ALUMINUM GLADHANDS

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	PORT A	
39832	Universal Standard	Plated Aluminum	Blk Rubber	No	1/2"	----
39833	Service - Blue	Plated Aluminum	Blk Rubber	No	1/2"	----
39834	Emergency - Red	Plated Aluminum	Blk Rubber	No	1/2"	----
39828	Service 38 degree	Plated Aluminum	Blk Rubber	No	1/2"	----
39829	Emergency 38 drgree	Plated Aluminum	Blk Rubber	No	1/2"	----
39830	Service 38 degree	Plated Aluminum	Blk Rubber	No	3/8"	----
39831	Emergency 38 drgree	Plated Aluminum	Blk Rubber	No	3/8"	----



PORT A

CAST IRON GLADHANDS

- **½ " FPT port**
- One-piece casting eliminates problems with clamp separation
- "Positive-stop" post, assures a perfect connection
- Polyurethane seal resist oils, chemicals & provide improved sealing & service life
- Gladhands meet SAE J318 requirements including breakaway requirement.

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	PORT A	
39506	Universal	Cast Iron	Black Polyurethane	No	1/2"	----
39507	Emergency	Cast Iron	Red Polyurethane	No	1/2"	----
39508	Service	Cast Iron	Blue Polyurethane	No	1/2"	----

PORT A

PORT B

ANGLE MOUNT ALUMINUM GLADHANDS

- For use in trailer mounting locations
- Dual port provides connection options
- Powder-coated clamp plates are color coded for easy identification
- Port "A" comes standard as unplugged
- (2) 3/8 inch FPT Ports (one plugged).
- (2) 11/32 inch diameter mounting holes.
- Available with Port "B" plugged or unplugged (plug is included, loose in bag)
- Meet SAE J318

PART #	TYPE	MATERIAL	SEAL	FILTER	PORT A	PORT B	
39511	Emergency	Aluminum	Blk Rubber	No	Unplugged	Plugged	----
39512	Service	Aluminum	Blk Rubber	No	Unplugged	Plugged	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

POWDER COATED IRON GLADHAND

- Tough powder coating improves wear & corrosion resistance
- Vividly colored to provide improved identification of service & emergency lines
- Stainless steel plate eliminates corrosion of the mating surface
- Polyurethane seal resist oil, chemicals, provide improved sealing & service life
- Meet or exceeds SAE J318 standard

PART #	DESCRIPTION	FILTER	PORT A	
39509	Service with blue poly seal	Yes	1/2"	----
39510	Emergency with red poly seal	Yes	1/2"	----

BRACKET MOUNT SWING AWAY GLADHAND

- Bracket allows 180° rotation allowing for easy hookups, eliminating the need to twist lines during connections
- Helps protect rear-trailer gladhands when not in use
- Filter and closed seal are recommended
- Spring design provides consistent tension throughout rotation
- Design provides both back port and bottom port capabilities
  Gladhand mount - 1/2" Male Thread

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	
39515	Service (Blue)	Aluminum	Blk Rubber	yes	----
39516	Emergency (Red)	Aluminum	Blk Rubber	yes	----

KNOB STYLE SHUTOFF GLADHAND

- Economical trailer shutoff gladhand
- Centered low-profile “snap-stop” knob
- Full face rubber seal
- Available with assembled or separate fittings.
- Meets SAE J318

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	
39520	1/2" Service (Blue)	Aluminum	Blk Rubber	No	----
39521	3/8" Service (Blue)	Aluminum	Blk Rubber	No	----
39522	1/2" Emergency (Red)	Aluminum	Blk Rubber	No	----
39524	3/8" Emergency (Red)	Aluminum	Blk Rubber	No	----

LEVER STYLE SHUTOFF GLADHAND

- Flange mount
- Metel handle shutoff
- Full face rubber seal
- Tough metal Ball valve
- Color coded
- Meets SAE J318

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	PORT A NPT	PORT B NPT	
39531	Emergency (Red)	Aluminum	Blk Rubber	No	3/8"	1/4"	----
39530	Service (Blue)	Aluminum	Blk Rubber	No	3/8"	1/4"	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GLADHAND GRIPS

1/2" NPTF.

- Comes with hardware and sealant
- Color-coded red and blue for easy air line identification - clamshell
- Handles are heat, oil and UV-resistant.
- Meet SAE J318

PART #	DESCRIPTION	
39535	Poly grip hardware	----

ALUMINUM GLADHAND GRIPS

- 1/2" NPTF
- Each pack contains (1) red and (1) blue - clamshell
- One piece design
- No screws or plastic parts
- Easy to install
- Class II anodized coating provides greater corrosion resistance

PART #	DESCRIPTION	
39537	Sure grip	----

GLADHAND PACIFIER SEAL

- Seals Gladhand from moisture, dirt and debris

PART #	DESCRIPTION	
39566	Gladhand pacifier	----

GLADHAND SEALS

Seal Options:

- Rubber
- Polyurethane
- With screen filter
- Double lip
- Filter screen only

PART #	DESCRIPTION	
39541	Blue, Polyurethane	----
39542	Red, Polyurethane	----
39543	Black, Polyurethane	----
39556	Blue with a screen filter Polyurethane	----
39557	Red with a screen filter Polyurethane	----
39558	Black with a screen filter Polyurethane	----
39550	Blue Double lip, Polyurethane	----
39551	Red Double Lips, Polyurethane	----
39552	Double Lip, Polyurethane	----
39544	Grey, Closed Style, Polyurethane	----
39560	Filter, Screen, Gladhand	----
39559	Filter, Screen, Gladhand	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

39565

DUMMY GLADHAND COUPLING KIT

• 6 ½" coupling length

PART #	CONNECTION	VENT	MATERIAL	
39563	Chain	Yes	Steel Yellow Zinc plated	----
39564	Chain	No	Steel Yellow Zinc plated	----
39565	Cable	N/A	Aluminum	----

39574 39575

NYLON GLADHAND AND PLUG HOLDER

• Stores Gladhand and electrical hook ups at a 45° angle.
• Can accept heavy ABS plug
• Standard mounting holes to install on back of cab.
• Glass-filled nylon, non-corrosive construction.

PART #	DESCRIPTION	
39574	1 plug slot	----
39575	2 plug slot	----

GLADHAND HOLDER KIT

• Steel - Zinc Yellow Dichromate
• Holds gladhands when disconnected

PART #	DESCRIPTION	
39573	Holder Kit	----
39572	Bracket only	----

GLADHAND LOCK

• Red molded plastic
• Prevents unwanted connections with trailers
• Protects idle units
• Universal for Aluminum and Iron Gladhands
• Supplied with 2-keys

PART #	DESCRIPTION	
39570	Gladhand Lock w/ 2 keys	----

**** Not an Anti theft device***

KING PIN LOCK-ANTI HOOK UP

• Cast, Zinc plated
• Anti-tractor, trailer hook-up
• Supplied with 2 keys

PART #	DESCRIPTION	
39860	King Pin Lock w/ 2 keys	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

AIR CYLINDER

- 300 series stainless steel cylinder shafts provide excellent corrosion resistance and extended cycle life -cylinders tested to over 500,000 cycles.
- Lightweight, corrosion resistant aluminum tube with die cast aluminum end caps.
- Rear clevis cast as integral part of the rear cover for improved durability and mounting integrity.
- Double acting, Emralon-coated piston cup assures smooth long lasting operation even in cold weather conditions to (- 40°F).
- Front end cap assembly includes pressure seal, dirt seal and oil impregnated bronze bushing.
- Cylinder tube imprinted with part number and date code for quick identification.
- All cylinders are factory pressure and leak tested prior to shipping.
- Front Cover Kit-Includes front cover with bushing and seals installed and two cylinder gaskets.
- Rear Cover Kit-Includes rear cover with two cylinder gaskets.
- Piston Cup Kit-Includes piston cup, lock nut and two cylinder gaskets.
- Shaft Kit-Includes shaft, lock nut and two cylinder gaskets.

PART #	SIZE	STROKE	RETRACTED	EXTENDED	TYPE	
39672	2 1/2"	4.0"	9.89"	13.89"	push/pull	----
39673	2 1/2"	6.0"	11.89"	17.89"	push/pull	----
39674	2 1/2"	8.0"	13.89"	21.89"	push/pull	----
39675	2 1/2"	6.0"	13.75"	19.75"	Spring return	----
39676	3 1/2"	8.0"	15.60"	24.28"	push/pull	----
39677	3 1/2"	10.0"	16.92"	26.95"	push/pull	----

HIGH LIFT AIR CYLINDERS

- Aluminum tube with 16 RMS finish
- Temp rating -40 to 185°F
- Recommended working pressure 150 psi
- Minimum bursting pressure 150 psi
- 1275 lb. thrust at 100 psi
- 1158 lb. draw at 100 psi

PART #	DIA.	STROKE	RETRACTED	EXTENDED	TYPE	
39654	4"	24"	34.5"	58.5"	push/pull	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

TAILGATE AIR CYLINDERS

- Die cast aluminum with mount hole for ½" pin and ¼" NPT port
- Molded piston cup
- Stainless steel piston rod with 5/8" – 18 thread
- 10 PSI – 120 PSI
- 10 psi min-120 psi max

39657 39660

PART #	DIA.	STROKE	LENGTH	TYPE	
39655	2-1/2"	4.0"	13.37	Push/Pull	----
39656	2-1/2"	6.0"	17.37	Push/Pull	----
39657	2-1/2"	8.0"	21.37	Push/Pull	----
39658	2-1/2"	4.0"	14.71	Spring Ret	----
39659	2-1/2"	6.0"	19.75	Spring Ret	----
39660	3-1/2"	6.0"	20.23	Push/Pull	----
39661	3-1/2"	8.0"	24.23	Push/Pull	----
39662	3-1/2"	8.0"	26.98	Push/Pull	----
39663	3-1/2"	10.0"	28.98	Push/Pull	----

TAILGATE AIR CYLINDERS

- Machined aluminum, 5/8" diameter ,stainless steel shaft with 5/8" - 18 threads, "O" rings and a UHMW polyethylene wear band
- Direct replacements to Haldex and MGM
- Standard operating pressure 100 psi
- 90psi min to 150 psi max

39665 39667

PART #	DIA.	STROKE	BRACKET	TYPE	
39665	6"	3"	Yes	Spring Ret	----
39667	6"	4.38"	No	Spring Ret	----

FIFTH WHEEL AIR CYLINDER

- 1/4" FPT port cast aluminum front and rear
- 2-1/2" Bore
- 6-3/4" stroke
- Front and rear mounting hole for 17/32" clevis,
- 100 psi
- Gold anodized tube for corrosion resistance

PART #	DESCRIPTION	
39669	Fifth Wheel Air Cylinder	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

AIR TANK DRAIN PULL VALVE

PART #	SIZE	DESCRIPTION	
39595	1/4" male	5ft nylon coated pull cable	----
39596	1/4" male	4ft nylon coated pull cable	----
39597	1/4" male	3ft nylon coated pull cable	----
39600	1/4" male	Air valve only	----

AIR TANK CHECK VALVE

- Single check valves allow air to pass from a single source to its destination, and prevent air travel in the opposite direction.

PART #	MALE X FEMALE	
39604	1/4"	----
39605	3/8"	----
39606	1/2"	----

D-2 STYLE AIR BRAKE GOVERNOR

- Opening and closing pressures of 100 to 120 psi
- High temperature O-ring construction
- Gasket and plugs included
- Replaces Bendix 275491 & KN18530

PART #	THREAD	DESCRIPTION	
39592	6-1/8" NPT	Air Brake Governors D-2 style	----

IN-LINE QUICK RELEASE VALVE

- Quick release for the air brake system
- 3/8” female exhaust port
- 2-3/8” female delivery port
- Cracking pressure: 1 PSI
- Helps meet the FMVSS -121 requirement for timing

PART #	DESCRIPTION	
39610*	3/8" NPT In-Line quick release valve	----
39611**	1/2" NPT In-Line quick release valve	----

* Replaces Bendix 229859, 288351 & KN32005
** Replaces Bendix 229860 & KN32011

R-12 RELAY VALVE

- ¼” Relay Valve with multiple delivery ports

Replaces Bendix 102166, 102626, 103009

PART #	SUPPLY PORT	DELIVERY PORT	DESCRIPTION	
39613	1/2" NPT	4, 1/2"NPT	4 psi no Bracket	----
39614	1/2" NPT	4, 1/2"NPT	4 psi Relay Valve	----
39615	3/4" NPT	2, 1/2" NPT	4 psi Relay Valve	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

R-14 RELAY VALVE

- ¼" Relay Valve with two delivery and supply ports
- Replaces Bendix 103010

PART #	SUPPLY PORT	DELIVERY PORT	DESCRIPTION	
39616	2-3/4"NPT	2-1/2"NPT	4 psi Relay Valve	----

THREE WAY SOLENOID

- Operates a minimum GF 50,000 cycles
- Inlet port normally closed
- Must be mounted vertically with the air inlet port facing up
- 1/4" female NPT ports
- 12 Volts
- 100-120 psi operating pressure
- Attached mounting bracket with two 9/32" diameter mounting holes on 2-1/2" centers

PART #	SUPPLY PORT	DESCRIPTION	
39684	2, 1/4" FPT	Three way Solenoid	----

UNIVERSAL SOLENOID

- Operates a minimum of 50,000 cycles.
- 125 amps at 12 volts.
- Continuous voltage.
- One on/off circuit
- 5/16 inch side studs, No. 10 top stud(s).
- 2 1/8 on Center
- 5/16 x 19/32
- Hardware included.
- Normally open

PART #	DESCRIPTION	
39687	4 stud Solenoid	----
39688	3 stud Solenoid	----

AIR SOLENOID VALVE

- Operates a minimum of 50,000 cycles.
- 100 psi max pressure.
- 1/4" Thread
- 10 Watts, 12 VDC
- Replaces Neway 90054075

PART #	DESCRIPTION	
39689	12V Closed	----
39690	12V Open	----

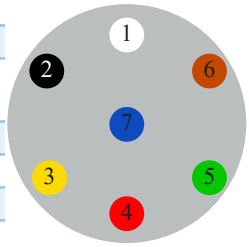
WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COILED CABLE

SEVEN-WAY COILED CABLE ASSEMBLIES

- ABS assemblies are heavy duty to power trailers
- HD Green gives clear ABS identification
- Resists abrasion, great coil retention
- Heavy duty plugs with spring guards
- ABS Cable meets SAE J2394
- Operating temperature range of -55° to +185°F

PIN LOCATION	COLOR CODE	GAUGE	CIRCUIT
1	White	8	Ground
2	Black	12	Clearance, side and ID lamps
3	Yellow	12	Left turn and Hazard
4	Red	10	Stop lamp and Anti-lock
5	Green	12	Right turn and Hazard
6	Brown	12	Tail and Plate lamp



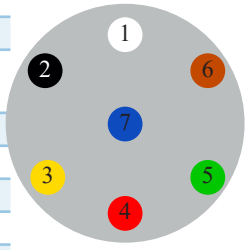
ABS

PART #	LENGTH	DESCRIPTION	
39736	12'	Coiled Electrical Cord, ABS w/12 in lead, w/plugs, Green	----
39737	15'	Coiled Electrical Cord, ABS w/12 in lead, w/plugs, Green	----

SEVEN-WAY COILED CABLE BLACK

- This high quality, durable construction is recommended for single-trailer configurations using standard lighting on non-ABS vehicles.
- Durable black outer jacket with heavy duty zinc die cast plugs and two spring guards included.

PIN	COLOR CODE	HD GAUGE	ECO GAUGE	CIRCUIT
1	White	10	12	Ground
2	Black	12	14	Clearance, side and ID lamps
3	Yellow	12	14	Left turn and Hazard
4	Red	12	14	Stop lamp and Anti-lock
5	Green	12	14	Right turn and Hazard
6	Brown	12	14	Tail and Plate lamp
7	Blue	12	14	ABS Power Aux



STANDARD - HEAVY DUTY

PART #	LENGTH	DESCRIPTION	
39738	12'	Coiled Electrical Cord, w/12 in lead, w/plugs, Black	----
39739	15'	Coiled Electrical Cord, w/15 in lead, w/plugs, Black	----

STANDARD - ECONOMY

PART #	LENGTH	DESCRIPTION	
39740	12'	Coiled Electrical Cord, w/12 in lead, w/plugs, Black	----
39741	15'	Coiled Electrical Cord, w/12 in lead, w/plugs, Black	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SIX WAY COILED ELECTRIC CABLE ASSEMBLY

- 6', 8', 12' Length
- Includes 2 Thermoseal 6-way plugs
- For light duty towing applications such as boats and utility trailers
- Plugs are molded for moisture and corrosion resistance
- 4/14 Gauge cable
- Flexible from -55°F to 150°F (-66°C to 66°C)

PART #	DESCRIPTION	
39752	6ft, 14awg w/12" Lead at 2 ends	----
39753	8 ft, 14awg w/12" Lead at 2 ends	----
39754	12ft,14awg w/12" Lead at 2 ends	----

FOUR WAY COILED ELECTRIC CABLE ASSEMBLY

- 4/14 Gauge cable
- 12' & 15' length
- Includes 2 Thermoseal 4-way plugs
- For light duty towing applications such as boats and utility trailers
- Plugs are molded for moisture and corrosion resistance
- Flexible from -55°F to 150°F (-66°C to 66°C)

PART #	DESCRIPTION	
39748	12' with 12" Lead, both ends 4/14awg	----
39749	15' with 12" Lead, both ends 4/14awg	----

DUEL POLE COILED ELECTRIC CABLE ASSEMBLY

- Black Jacket
- 12' & 15' length
- 200 Amp at 12 VDC.
- Zinc die cast plugs.
- 4 gauge cable.

PART #	DESCRIPTION	
39744	12' Coil With 12" Lead at 2 ends 4awg	----
39745	15' Coil With 12" Lead at 2 ends 4awg	----

SINGLE POLE COILED ELECTRIC CABLE ASSEMBLY

- Black Jacket
- 12' & 15' length
- For applications that require direct electrical power to trailer lift gates.
- Rated at 265 amps on/off service (30 seconds on/50 seconds off).
- Zinc die cast plugs with spring guards included.
- 4 gauge cable.

PART #	DESCRIPTION	
39742	12' Coil With 12" Lead both ends 4awg	----
39743	15' Coil With 12" Lead both ends 4awg	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

7 WAY PLUGS AND SOCKETS

39758

39757

39772

- Heavy-duty, nickel-plated zinc die cast housings
- Brass terminal pins for maximum current carrying ability
- Field repairable with standard tools
- Fully interchangeable with other SAE-type, 7-way connectors
- ATA marked wire terminals.
- Internal clamp holds cable securely in place.
- Standard seven-way plugs meet ATA and SAE J560 requirements
- ISO plugs meet ISO 3731:1997 requirements.
- ISO socket prevents connections with Non-ISO plugs - Used in tractor/ trailer systems
- ISO color-coded yellow, non-corrosive reinforced nylon housing.

PLUGS

PART #	DESCRIPTION	
39757	7-Way Single Grip Plug w/Spring Guard	----
39758	7-Way Single Grip Plug NO Spring.	----
39772	7-Way Double Grip Plug w/Spring.	----
39773	7-Way Double Grip Plug NO Spring Guard	----
39788	7-way ISO plug	----

SOCKETS

PART #	DESCRIPTION	
39774	Solid Pin 7-Way Metal Socket	----
39775	Split Pin 7-Way Metal Socket	----
39789	7-way, ISO socket	----

7 WAY DOUBLE GRIP PLUG

- T-Grip weather guard
- Plastic grip

PART #	DESCRIPTION	
39818	7-Way Double Grip Plug, Plastic	----

6 AND 7 WAY ADAPTER

PART #	DESCRIPTION	
39786	Seven way plug to Six Way Socket Adapter	----
39787	Six way plug to Seven Way socket Adapter	----

RV 7-WAY PLUG

- Primarily used in RV applications.
- Constructed of molded PVC for impact resistance
- Blade Style Pin

PART #	DESCRIPTION	
39819	7-way Plastic plug	----

RV 7-WAY SOCKET

- RV Screw-type socket
- 6-24 VDC.
- Mounting 2-1/4" inch on center .
- Constructed of molded PVC

PART #	DESCRIPTION	
39820	7-way socket	----

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

6 - WAY PLUGS AND SOCKETS

PART #	DESCRIPTION	
39782	6-Way Double Grip Metal Plug w/Spring Guard.	----
39783	6-Way Metal Socket.	----

4 WAY PLUGS AND SOCKETS

- Heavy-duty zinc die cast housings on plugs and sockets.
- Plug locking system works with socket door to ensure proper hookup and prevent unintentional disconnections.
- Spring guard supports and protects cable.

4 - WAY

PART #	DESCRIPTION	
39778	4-Way Double Grip Metal Plug w/Spring Guard.	----
39779	4-Way Metal Socket.	----

2 POLE PLUGS AND SOCKETS

- 200 amp 4 gauge wire capacity.
- Heavy-duty zinc die cast housing.
- Internal ground.
- Spring guard supports and protects cable.

PART #	DESCRIPTION	
39768	2 Pole Double Grip Metal Plug w/Spring Guard.	----
39769	2 Pole Metal Socket	----

SINGLE POLE PLUGS AND SOCKETS

- Used to provide power to heavy draw auxiliary trailer equipment.
- Heavy-duty zinc die cast housings.
- Power and ground terminals hold up to 1/0 gauge wire.

PART #	DESCRIPTION	
39764	1-Way Double Grip Plug w/Spring Guard.	----
39765	1-Way Double Grip Plug w/Spring Guard and Ground Kit	----
39766	1-Way Metal Socket	----

GROUND KIT

PART #	DESCRIPTION	
39809	Ground Kit (Bolt, Nut and Wire Lug) for 1-Way Plug or Socket	----

PROTECTOR BOOT FOR PLUG

- Protective rubber boot seals out moisture and contaminants

PART #	DESCRIPTION	
39807	Protector Boot	----

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

7 WAY SOCKET WITH CIRCUIT BREAKER

- Non-corrosive, reinforced nylon housing for added durability.
- Designed for No. 8 ring terminals.
- ATA color-coded contacts.
- Solid brass split pins are zinc-plated for corrosion resistance.
- Each socket includes automatic reset circuit breakers with positive snap action to eliminate arcing (unless otherwise noted).
- Mounting holes are 4 1/2 inch on center and include steel bushings for added housing protection.
- Adhesive-backed mounting gasket included.
- Circuit breaker sockets meet SAE J560 requirements.

PART #	DESCRIPTION	
39792	No circuit breakers	----
39793	15amp Plastic with circuit breakers	----
39794	20amp Plastic with circuit breakers	----
39795	30amp Plastic with circuit breakers	----

7 WAY CIRCUIT CHASER

- Instantly finds short or faulty circuits
- Portable

PART #	DESCRIPTION	
39805	7 way circuit	----

CIRCUIT BREAKERS - PLASTIC

- Colored Battery molded Stud
- 12 Volt
- Meets SAE j553 requirements
- Nuts included

PART #	DESCRIPTION	
39800	15 AMP	----
39801	20 AMP	----
39802	25 AMP	----
39803	30 AMP	----

NOSE BOX - DEEP

- Zinc - extra deep

PART #	DESCRIPTION	
39814	Deep Nose Box	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BATTERY GROUND STRAP

- 4 gauge wire.
- Molded zinc-plated steel lugs and tin-plated copper stranding.
- 7/16 inch diameter bolt hole.
- 12" Long

PART #	DESCRIPTION	
39712	12", 4 Gauge ground strap	----

STAINLESS STEEL BATTERY NUT

PART #	TYPE	
39713	3/8"	----

RUBBER GROMMET

- Black Rubber

PART #	ID	OD	
95450	5/16"	9/16"	----
95451	5/8"	1 1/4"	----
95452	3/4"	1 3/4"	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ACCESSORIES

DEER WHISTLES

- Produces two separate and unique frequencies
- High output airflow activated
- Can be removed from base for cleaning and car washes
- Mounts with high bond tape **(included)**
- Lowers risk for vehicle-animal collisions

PART #	DESCRIPTION	
39465	2 pack whistle	----

CABLE TIE STRAPS - NYLON

- Used to secure and bundle
- CSA Certified
- RoHs Compliant
- UV or Standard

STANDARD

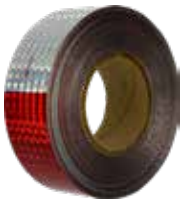
PART #	LENGTH	STRENGTH	PACKAGE QTY	
95601	7 1/2"	50lb	100	----
95602	11"	50 lb	100	----
95603	14.5"	50 lb	100	----
95604	24"	175 lb	50	----
95605	36"	175lb	50	----
95606	48"	175 lb	50	----

UV BLACK

PART #	LENGTH	STRENGTH	PACKAGE QTY	
95610	7 1/2"	50lb	100	----
95611	14"	50 lb	100	----
95612	24"	175lb	50	----
95613	36"	175lb	50	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ACCESSORIES
TRUCK AND TRAILER



95620

CONSPICUITY TAPE

Tape is designed for trucks, trailers, and other vehicles for easy nighttime vehicle recognition and increased road safety. It is a high quality, durable microprismatic retroreflective material with a pressure sensitive adhesive. The solid construction does not require edge sealing. Conspicuity tape provides superior reflectivity and may help reduce accidents.

- DOT -C2 Certified
- Meets or exceeds NHTSA, FMVSS 108 & ASTM D4956
- Meets Canada TSD 108
- 10 year durability

PART #	DESCRIPTION	APP. WT.	
95620	2" x 150' Roll of 11" Red / 7" White	0.32	----
95621	2" x 150' Roll of 6" Red / 6" White	0.32	----
95622	2" x 150' Roll of solid white	0.32	----
95623	2" x 18", kiss cut strip, white	0.03	----
95624	2" x 18" kiss cut strip of 11" Red / 7" White	0.03	----

95625

95627

- Meets or exceeds ANSI/ASAE S279, ANSI/ASAE S276 & ASTM D-4956
- 7 year durability

PART #	DESCRIPTION	APP. WT.	
95625	1" X 150' Roll of solid yellow	0.17	----
95626	2" X 150' Roll of solid yellow	0.32	----
95627	3" round all plastic reflector, Red	0.06	----
95628	3 3/4" x 6 1/2" American flag, type IV HIP	0.02	----

95628

TARP STRAPS

- Heavy Duty EPDM tarp straps
- Longer lasting than rubber
- Greater stretch length
- Ozone and weather resilient
- Made in the USA

PART #	STRAP LENGTH	MATE-RIAL	DESCRIPTION	QTY	
990790	10"	EPDM	Tarp strap with S hook	50	----
990791	15"	EPDM	Tarp strap with S hook	50	----
990792	21"	EPDM	Tarp strap with S hook	50	----
990793	31"	EPDM	Tarp strap with S hook	50	----
990794	41"	EPDM	Tarp strap with S hook	50	----

NYLON DOT AIR BRAKE TUBING

TRUCK AND TRAILER

- Air Brake Tubing available from inventory in a large variety of colors and sizes
- Superior cold weather flexibility and abrasion resistance
- UV and ozone resistant nylon
- Meets or exceeds SAEJ844 (Type A - non-reinforced & Type B - reinforced)
- Meets or exceeds DOT requirements for use with compression fittings (NOTE: SAE does not recognize 1/8", 5/32" or 3/16" O.D. tubing for use with air brake systems)
- Air Brake Tubing identified per SAE J844 & FMVSS No. 106 Brake Hoses, 49 CFR 571.106
- Conforms to our own rigorous qualification and inspection testing which exceeds SAE and DOT requirements
- Designed to operate at up to 150 psi in air brake systems
- Resistant to attack by gasoline, diesel fuel and commonly used road and cleaning chemicals
- Air Brake Tubing available on bulk spools or by packages
- Operating range: -40°- 200°F - Not made for fuel

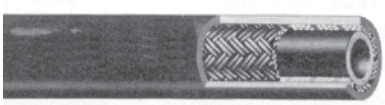
PART NUMBER	COLOR	LENGTH	NOMINAL O.D.	NOMINAL WALL	
38950B2	Black	2000'	1/8"	0.023"	----
38950	Black	100'	1/8"	0.023"	----
3895BA	Black	50'	1/8"	0.023"	----
38951B1	Black	1000'	5/32"	0.032"	----
38951	Black	100'	5/32"	0.032"	----
38951BA	Black	50'	5/32"	0.032"	----
38953B1	Black	1000'	3/16"	0.035"	----
38953	Black	100'	3/16"	0.035"	----
38953BA	Black	50'	3/16"	0.035"	----
389523	Black	1000'	1/4"	0.040"	----
389522	Black	500'	1/4"	0.040"	----
38952	Black	100'	1/4"	0.040"	----
38952BA	Black	50'	1/4"	0.040"	----
38952U1	Blue	1000'	1/4"	0.040"	----
38952U	Blue	100'	1/4"	0.040"	----
38952UA	Blue	50'	1/4"	0.040"	----
38952O	Orange	100'	1/4"	0.040"	----
38952OA	Orange	50'	1/4"	0.040"	----
38952G1	Green	1000'	1/4"	0.040"	----
38952G	Green	100'	1/4"	0.040"	----
38952GA	Green	50'	1/4"	0.040"	----
38952R1	Red	1000'	1/4"	0.040"	----
38952R	Red	100'	1/4"	0.040"	----
38952RA	Red	50'	1/4"	0.040"	----
38952Y1	Yellow	1000'	1/4"	0.040"	----
38952Y	Yellow	100'	1/4"	0.040"	----
38952YA	Yellow	50'	1/4"	0.040"	----
38954B5	Black	500'	5/16"	0.040"	----
38954	Black	100'	5/16"	0.040"	----
38954BA	Black	50'	5/16"	0.040"	----
38960B5	Black	500'	3/8"	0.062"	----
38960	Black	100'	3/8"	0.062"	----
38960BA	Black	50'	3/8"	0.062"	----
38960U5	Blue	500'	3/8"	0.062"	----
38960U	Blue	100'	3/8"	0.062"	----
38960UA	Blue	50'	3/8"	0.062"	----
38960O5	Orange	500'	3/8"	0.062"	----
38960O	Orange	100'	3/8"	0.062"	----
38960OA	Orange	50'	3/8"	0.062"	----
38960G5	Green	500'	3/8"	0.062"	----
38960G	Green	100'	3/8"	0.062"	----
38960GA	Green	50'	3/8"	0.062"	----
38960R5	Red	500'	3/8"	0.062"	----
38960R	Red	100'	3/8"	0.062"	----

PART NUMBER	COLOR	LENGTH	NOMINAL O.D.	NOMINAL WALL	
38960RA	Red	50'	3/8"	0.062"	----
38960Y5	Yellow	500'	3/8"	0.062"	----
38960Y	Yellow	100'	3/8"	0.062"	----
38960YA	Yellow	50'	3/8"	0.062"	----
38965B5	Black	500'	1/2"	0.062"	----
38965	Black	100'	1/2"	0.062"	----
38965BA	Black	50'	1/2"	0.062"	----
38965U5	Blue	500'	1/2"	0.062"	----
38965U	Blue	100'	1/2"	0.062"	----
38965UA	Blue	50'	1/2"	0.062"	----
38965O5	Orange	500'	1/2"	0.062"	----
38965O	Orange	100'	1/2"	0.062"	----
38965OA	Orange	50'	1/2"	0.062"	----
38965G5	Green	500'	1/2"	0.062"	----
38965G	Green	100'	1/2"	0.062"	----
38965GA	Green	50'	1/2"	0.062"	----
38965R5	Red	500'	1/2"	0.062"	----
38965R	Red	100'	1/2"	0.062"	----
38965RA	Red	50'	1/2"	0.062"	----
38965Y5	Yellow	500'	1/2"	0.062"	----
38965Y	Yellow	100'	1/2"	0.062"	----
38965YA	Yellow	50'	1/2"	0.062"	----
38970BC	Black	250'	5/8"	0.092"	----
38970	Black	100'	5/8"	0.092"	----
38970BA	Black	50'	5/8"	0.092"	----
38970GC	Green	250'	5/8"	0.092"	----
38970G	Green	100'	5/8"	0.092"	----
38970GA	Green	50'	5/8"	0.092"	----
38970RC	Red	250'	5/8"	0.092"	----
38970R	Red	100'	5/8"	0.092"	----
38970RA	Red	50'	5/8"	0.092"	----
38975BC	Black	250'	3/4"	0.092"	----
38975	Black	100'	3/4"	0.092"	----
38975BA	Black	50'	3/4"	0.092"	----
38975GC	Green	250'	3/4"	0.092"	----
38975G	Green	100'	3/4"	0.092"	----
38975GA	Green	50'	3/4"	0.092"	----

FUEL LINE AND AIR BRAKE HOSE

TRUCK AND TRAILER

FUEL LINE AND VAPOR EMISSION



•SAE 30R7
•Nitrile tube w/ spiral synthetic cord, hypalon cover.
•50 p.s.i. working pressure. 1/2 -35 PSI
•-40^0 F to + 257^0 F temperature range.
•Low pressure/ high temperature fuel for cars, light trucks, and small engines.
• Meets SAE J1402

PART #	ID	OD	LENGTH	
38920	3/16	13/32	25'	----
38926	5/16	9/16	25'	----
38923	1/4	1/2	25'	----
38927	3/8	5/8	50'	----

AIR BRAKE HOSE

• BLACK

•Spiral synthetic cord reinforcement with neoprene cover.
•-40^0 F to +200^0 F temperature range.
•Max opperating pressure 255 psi
•Max burst pressure 900 psi
• Meets SAE J1402

PART #	ID	OD	LENGTH	
38910	3/8	3/4	50'	----
38915	1/2	7/8	50'	----

The Butterfly

A man found a cocoon of a butterfly.

One day a small opening appeared. He sat and watched the butterfly for several hours as it struggled to force its body through that little hole.

Until it suddenly stopped making any progress and looked like it was stuck.

So the man decided to help the butterfly. He took a pair of scissors and snipped off the remaining bit of the cocoon. The butterfly then emerged easily, although it had a swollen body and small, shriveled wings.

The man didn't think anything of it and sat there waiting for the wings to enlarge to support the butterfly. But that didn't happen. The butterfly spent the rest of its life unable to fly, crawling around with tiny wings and a swollen body.

Despite the kind heart of the man, he didn't understand that the restricting cocoon and the struggle needed by the butterfly to get itself through the small opening; were God's way of forcing fluid from the body of the butterfly into its wings. To prepare itself for flying once it was out of the cocoon.

Moral of the story:
Our struggles in life develop our strengths. Without struggles, we never grow and never get stronger, so it's important for us to tackle challenges on our own, and not be relying on help from others.

- UNKNOWN

HYDRAULIC ADAPTERS & ACCESSORIES

STEEL ADAPTERS

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37° JIC Flare Straights 506
37° JIC Flare Shapes 508
Bulkhead Adapters 510
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O-Ring Adapters Straight . 517
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BSPT/ BSPP Adapters 527
Metric Adapters 529
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Stainless Steel Adapters 540
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HYDRAULIC QUICK DISCONNECTS

Thread to Connect - Wing 531
ISO A Interchange 531
ISO B Interchange 531
Flush Face ISO 532
VEP Series 532
AG Interchange 533
Hydraulic Jack Q/D 533

HYDRAULIC VALVES & ACCESSORIES

Flow Control Valve 534
Variable Flow Control 535
Air Breathers 535

PLATING SPECIFICATION

Our standard Trivalent, Cr^{+3} plating performs at nearly double the S.A.E. corrosion resistance requirement. The plating meets ASTM B633, Fe/Zn 5. The thickness is 5um-13um. This plating is silver in appearance and has been testing at 96 hours to white rust and 120 hours to red rust.

TECHNICAL INFORMATION

WORKING PRESSURE

The tables on the following pages list the recommended working pressure for a variety of hydraulic fittings made in accordance with certain industry standards. Many factors such as impulse, vibration, mechanical shock, and improper assembly may affect the integrity of the fitting connection.

We recommend sufficient testing be conducted to ensure that performance levels will be safe and satisfactory, especially if installed in systems operating at elevated pressures or in severe conditions. Working pressure ratings are capable of a 4 to 1 minimum burst. All steel fittings meet or exceed the minimum SAE pressure ratings. Always consider application and maximum pressure requirements when selecting fittings.

METHODS FOR INSTALLING FITTINGS

There are three methods for installing a fitting:

- Torque wrench
- Flats From Wrench Resistance
- Turns From Finger Tight

For Flare and NPSM Fittings, we recommend the flats from wrench resistence method be used whenever possible.

The differences in material, plating, and surface finish impacts the coefficient of friction when installing or connecting fittings. To minimize these variances, we recommend that fitting connections are lubricated when installed. Connections that are lubricated provide a more accurate installation torque, which results in fewer leaks.

USING A TORQUE WRENCH

The torque values given in the tables on the following pages are for reference purposes only based on industry standard practice and for low carbon steel mating with steel/iron components. Actual torque values may need to be adjusted due to variances described above.

SAE recommends always making a wet (lubricated) installation or connection to reduce friction on moving parts, O-rings, and variances in material and plating. The torque values in these tables are based off SAE values using a .17 coefficient of friction as per SAE J2593. Many hydraulic leaks are a result of over-torque, which causes excessive deformation of material or exceeds the yield strength of the material, which may reduce the load or clamping force between seal contacts.

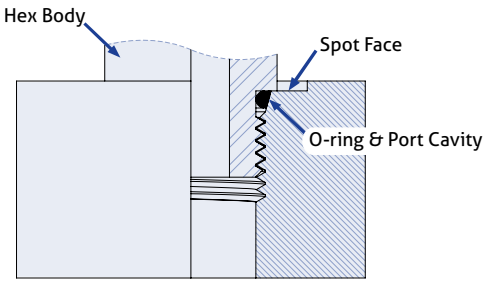
If more than one value or range is given, use the lower value first and increase only if required. Over-torquing can damage a fitting or mating component.

SAE O-Ring Boss Port Specifications

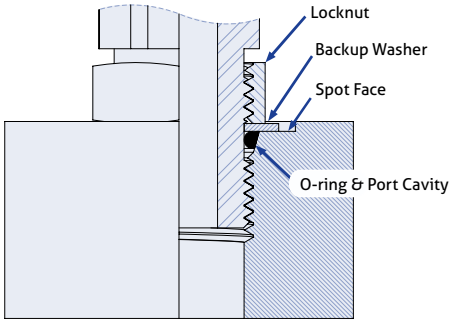
O-ring Boss ports (ORB) provide a seal by trapping the fitting's O-ring inside a port cavity. When a fitting is installed into the port, the O-ring is trapped between the fitting body hex or washer and port cavity.

Straight fittings include a hex, and sometimes an additional cylindrical shoulder below the hex and above the threads, to trap the O-ring in the port cavity.

Elbow and Tee fittings require a backup washer and a locknut above the O-ring on the threaded stud to permit a 360° orientation of the fitting around the port.



Straight SAE ORB



Adustable SAE ORB

The following table lists the specifications for SAE O-Ring Boss Ports.

SAE O-Ring Boss Specifications								
Dash Size	Tube Size	Thread	SAE-ORB to JIC and Pipe Fittings*			SAE-ORB to ORFS Fittings**		
			Torque	Working Pressure		Torque	Working Pressure	
			Adjustable & Non- Adjustable	Adjustable	Non-Adjustable	Adjustable & Non- Adjustable	Adjustable	Non- Adjustable
			(ft-lbs) +25% -0%	(psi)	(psi)	(ft-lbs) +25% -0%	(psi)	(psi)
02	1/8	5/16-24	6	4500	4500	-	-	-
03	3/16	3/8-24	7	4500	4500	7	5800	9100
04	1/4	7/16-20	13	4500	4500	15	5800	9100
05	5/16	1/2-20	18	4500	4500	18	5800	9100
06	3/8	9/16-18	22	3600	4500	26	5800	9100
08	1/2	3/4-16	37	3600	4500	52	5800	9100
10	5/8	7/8-14	44	2900	3600	74	5800	9100
12	3/4	1-1/16-12	70	2900	3600	125	5800	5800
14	7/8	1-3/16-12	92	2300	2900	158	5800	5800
16	1	1-5/16-12	111	2300	2900	199	4500	5800
20	1 1/4	1-5/8-12	147	1800	2300	210	3600	3600
24	1 1/2	1-7/8-12	155	1800	2300	273	2900	3600
32	2	2-1/2-12	221	1450	1800	-	-	-

* = Light duty studs included on JIC, NPTF and NPSM fittings per SAE J1926/3 & J514
** = Heavy duty studs included on ORFS fittings per SAE J1926/2 & J1453

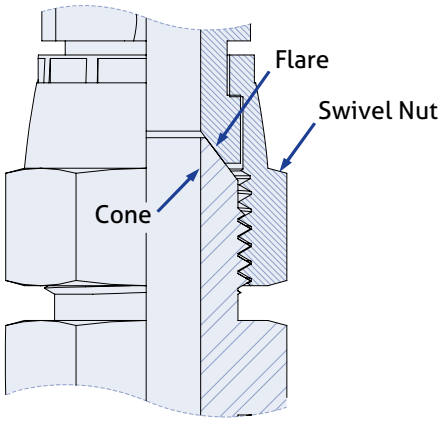
Note: Torque values are for wet torque and are allowed up to 25% the listed value according to SAE J2593.

TECHNICAL INFORMATION
HYDRAULIC ADAPTERS

JIC Adapter Specifications

Male flared fittings include a conical nose with external threads for clamping.

A flared fitting or tube assembly is tightened against the cone with a swivel nut. By forcing the flare against the cone during the torquing process, the nose cone is slightly deformed and meshes to create a metal to metal seal between the flare and the cone.



The following table lists the specifications for JIC adapters.

JIC Specifications							
Dash Size	Tube Size	Thread	Working Pressure		Torque		
			Male	Female Swivel Nut	JIC Rigid	JIC Swivel	Bulkhead Locknut
			(psi)	(psi)	(FFWR)	(FFWR)	(ft-lbs) +25% -0%
02	1/8	5/16-24	5000	5000	1/4 - 1/2	2	4
03	3/16	3/8-24	5000	5000	1/4 - 1/2	2	6
04	1/4	7/16-20	5000	4500	1/4 - 1/2	2	10
05	5/16	1/2-20	5000	4000	1/4 - 1/2	2	13
06	3/8	9/16-18	5000	4000	1/4 - 1/2	2	16
08	1/2	3/4-16	4500	4000	1/4 - 1/2	2	27
10	5/8	7/8-14	3500	3000	1/4 - 1/2	1 1/2	32
12	3/4	1-1/16-12	3500	3000	1/4 - 1/2	1 1/2	52
14	7/8	1-3/16-12	3000	2500	1/4 - 1/2	1 1/2	66
16	1	1-5/16-12	3000	2500	1/4 - 1/2	1 1/2	85
20	1 1/4	1-5/8-12	2500	2000	1/4 - 1/2	1	111
24	1 1/2	1-7/8-12	2000	1500	1/4 - 1/2	1	114
32	2	2-1/2-12	1500	1125	1/4 - 1/2	1	162
Values are per SAE J514							

It has been my observation that most people get ahead during the time that others waste. -*Henry Ford*

Pipe & Pipe Swivel Adapter Specifications

NPSM fittings include an inverted 60° cone inside an internally threaded swivel union nut. Male NPTF fittings that have a 30° internal chamfer that make a 60° inverted cone, will mate with NPSM swivel unions.

NOTE: THE MATING MALE THREADS MUST INCLUDE AN INSIDE CHAMFER ON THE END OF THE FITTING THAT MATES WITH THE INVERTED CONE. THREADS ARE FOR CLAMPING FORCE ONLY AND THE SEALING OCCURS ON A SMALL RADIAL SECTION BETWEEN THE MALE FITTING INTERNAL CHAMFER AND THE SWIVEL UNION INVERTED CONE.

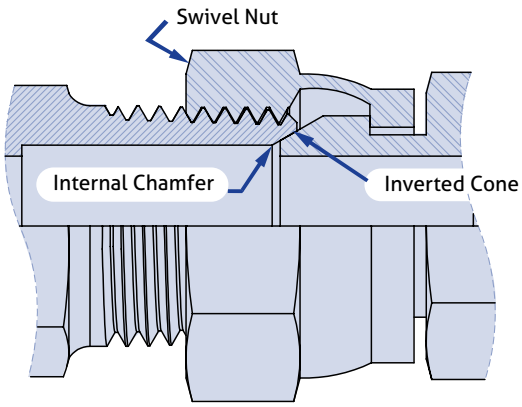


Figure 7 : NPTF & NPSM Union

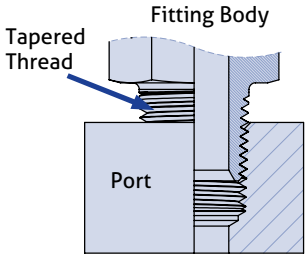


Figure 8: NPT & NPTF Assembly

NPT and NPTF pipe threads seal by wedging the tapered threads through deformation into each other. Both of these threads require thread sealants to complete a seal.

The following table lists the specifications for NPT, NPTF, and NPSM Pipe adapters.

NPT, NPTF, and NPSM Pipe Specifications						
Dash Size	Thread Size	Major OD* (inch)	Working Pressure		Torque	
			NPT, NPTF Male and Female	NPSM Female Swivel Nut	NPT, NPTF	NPSM Swivel Union
			(psi)	*(psi)*	*(TFFT)*	*(FFWR)*
02	*1/8-27*	*.405*	*5000*	*5000*	*2-3*	*2*
04	*1/4-18*	*.540*	*4000*	*5000*	*2-3*	*2*
06	*3/8-18*	*.675*	*3000*	*4000*	*2-3*	*2*
08	*1/2-14*	*.84*	*3000*	*3500*	*2-3*	*2*
12	*3/4-14*	*1.050*	*2500*	*2250*	*2-3*	*2*
16	*1-11 1/2*	*1.315*	*2000*	*2000*	*1 1/2 - 2 1/2*	*1 1/2*
20	*1 1/4-11 1/2*	*1.660*	*1150*	*1625*	*1 1/2 - 2 1/2*	*1 1/2*
24	*1 1/2-11 1/2*	*1.900*	*1000*	*1250*	*1 1/2 - 2 1/2*	*1 1/2*
32	*2-11 1/2*	*2.375*	*1000*	*1125*	*1 1/2 - 2 1/2*	*1 1/2*
Values are per SAE J514 & J2593						

Table 3: NPT, NPTF, and NPSM Pipe Specifications

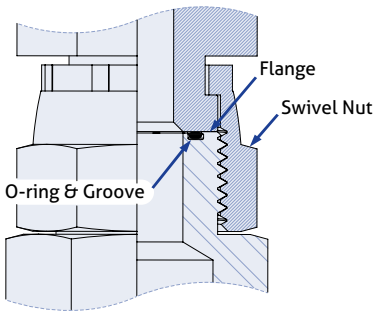
Folks who never do any more than they are paid for, never get paid for any more than they do.

-Elebert Hubbard

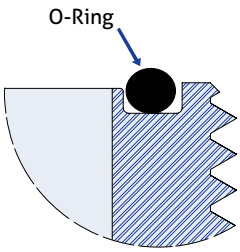
O-ring Face Seal Adapter Specifications

O-ring face seal fittings include a precision groove in the face of the male fitting. Sealing occurs when an O-ring is trapped in the groove by a smooth flat flange that is clamped against the face with a nut or nut and sleeve. The flat flange may be formed or brazed onto the end of a tube, or is machined on a fitting.

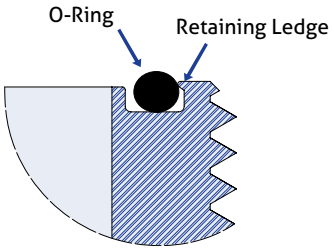
There are two SAE groove types:
- Type A: The original style A O-ring has no retaining ledge.
- Type B: The Type B groove has a retaining ledge (half dovetail) that improves O-ring retention. The Type B style is more commonly found and is a design improvement over the Type A.



e 9 : ORFS Fitting Assembly



: 10: Detail View of Cross Section of Groove Type A



11 : View of Groove Type B

The following table lists the specifications for O-ring Face Seal adapters.

ORFS Specifications								
Dash Size	Tube Size	Thread Size	Working Pressure		Torque			
			Male	Female Swivel Nut	Male & Female	Bulkhead Locknut	Tube Nuts	Swivel Nuts
			(psi)	*(psi)*	*(ft-lbs) +25% -0%*	*(ft-lbs) +25% -0%*	*FWR*	*FWR*
04	*1/4*	*9/16-18*	*6000*	*6000*	*18*	*16*	*1/4-1/2*	*1/2-3/4*
06	*3/8*	*11/16-16*	*6000*	*6000*	*29*	*22*	*1/4-1/2*	*1/2-3/4*
08	*1/2*	*13/16-16*	*6000*	*6000*	*41*	*29*	*1/4-1/2*	*1/2-3/4*
10	*5/8*	*1-14*	*6000*	*6000*	*44*	*44*	*1/4-1/2*	*1/2-3/4*
12	*3/4*	*1-3/16-12*	*6000*	*6000*	*66*	*66*	*1/4-1/2*	*1/3-1/2*
16	*1*	*1-7/16-12*	*6000*	*5000*	*92*	*92*	*1/4-1/2*	*1/3-1/2*
20	*1 1/4*	*1-11/16-12*	*4000*	*4000*	*125*	*111*	*1/4-1/2*	*1/3-1/2*
24	*1 1/2*	*2-12*	*4000*	*3000*	*147*	*125*	*1/4-1/2*	*1/3-1/2*
Note: Values are per SAE J2593 & J1453								
Torque values are for wet installation of steel components. Reduce torque values for softer material components.								

Table 4 : ORFS Specifications

BSPT, BSPP and Metric Adapter Specifications

BSPT and Metric tapered threads install and work in the same manner as NPT and NPTF.

Male BSPP fittings include an inverted 60° cone inside an internally threaded swivel union nut. Male BSPP fittings that have a 30° internal chamfer that make a 60° inverted cone, will mate with Female BSPP swivel unions.

NOTE: THE MATING MALE THREADS MUST INCLUDE AN INSIDE CHAMFER ON THE END OF THE FITTING THAT MATES WITH THE INVERTED CONE. THREADS ARE FOR CLAMPING FORCE ONLY AND THE SEALING OCCURS ON A SMALL RADIAL SECTION BETWEEN THE MALE FITTING INTERNAL CHAMFER AND THE SWIVEL UNION INVERTED CONE.

DIN swivel unions have a 24° inverted cone and may be installed into DIN bite-ring compression fittings. To provide enhanced performance, an O-ring is sometimes included in the cone of some DIN swivel unions.

British Standard Pipe Parallel (BSPP) and Metric Parallel threaded ports do not include a port cavity like the O-ring Boss or ISO 6149 port. Instead, an O-ring sits on top of the spot face or external surface and is surrounded by a metal retaining ring or other retaining component to trap the O-ring between the fitting hex, body, and spot face.

Elbow and Tee fittings have a locknut, backup washer, O-ring and retaining washer to permit 360° orientation around the axis of the port.

The following table lists the specifications for **BSPP & BSPT Adapters**

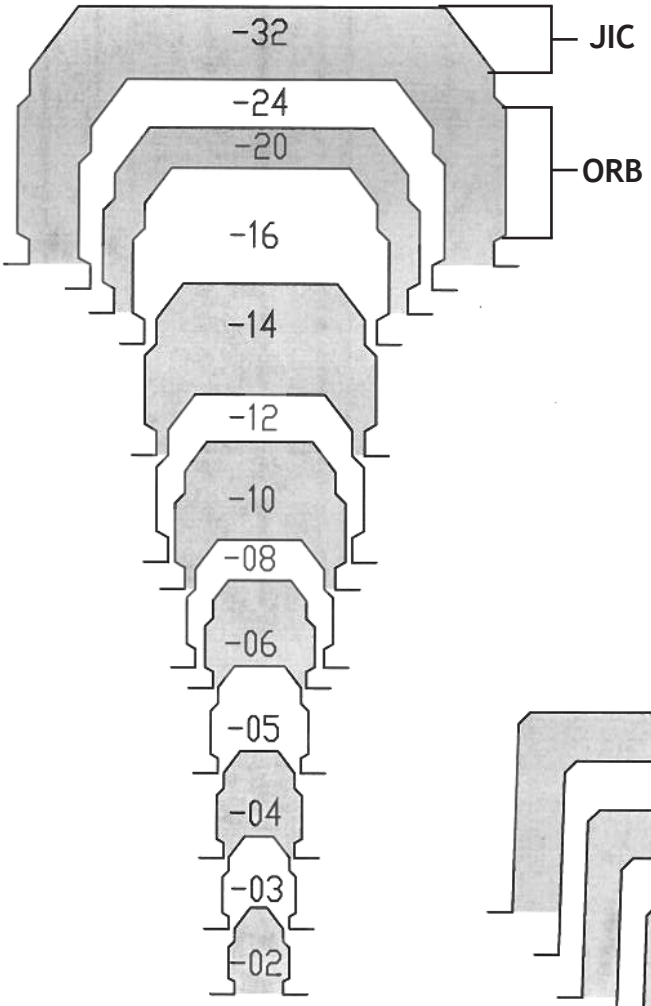
BSPP & BSPT Specifications				
Dash Size	BSPT & BSPP		Torque	
	THREAD SIZE	MAJOR OD* (inch)	BSPP Swivel Union	BSPT
02	1/8-28	0.383	2	2-3
04	1/4-19	0.518	2	2-3
06	3/8-19	0.656	2	2-3
08	1/2-14	0.825	2	2-3
10	5/8-14	0.929	2	2-3
12	3/4-14	1.041	2	2-3
16	1-11	1.309	1 1/2	1 1/2 - 2 1/2
20	1 1/4-11	1.650	1 1/2	1 1/2 - 2 1/2
24	1 1/2-11	1.882	1 1/2	1 1/2 - 2 1/2
32	2-11	2.347	1 1/2	1 1/2 - 2 1/2

The following table lists the specifications for **Metric Adapters**

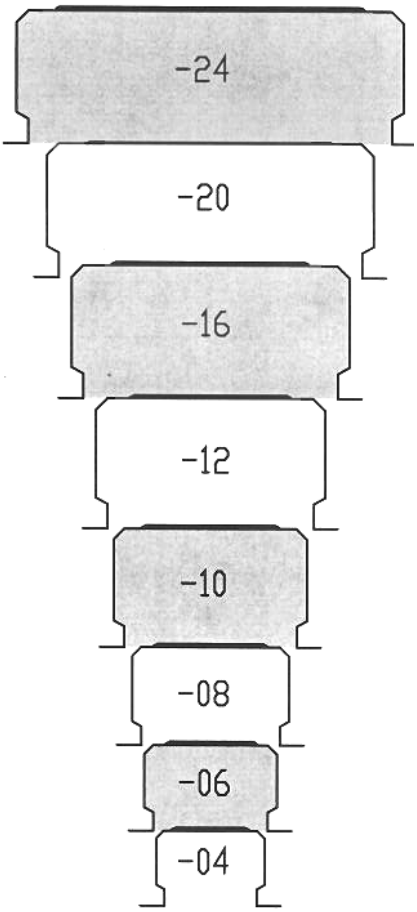
Metric DIN 3852-1 Threads	
Dash Size	THREAD SIZE (mm)
08	8 x 1.0
10	10 x 1.0
12	12 x 1.5
14	14 x 1.5
16	16 x 1.5
18	18 x 1.5
20	20 x 1.5
22	22 x 1.5
24	24 x 1.5
26	26 x 1.5
27	27 x 2.0
30	30 x 2.0
33	33 x 2.0
39	39 x 2.0
42	42 x 2.0
48	48 x 2.0
60	60 X 2.0
Values are from DIN 3852-1	

PROFILE SIZE CHART

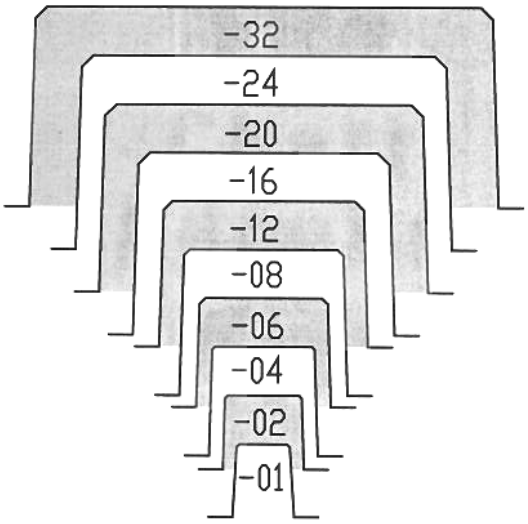
MALE JIC/ MALE O-RING BOSS

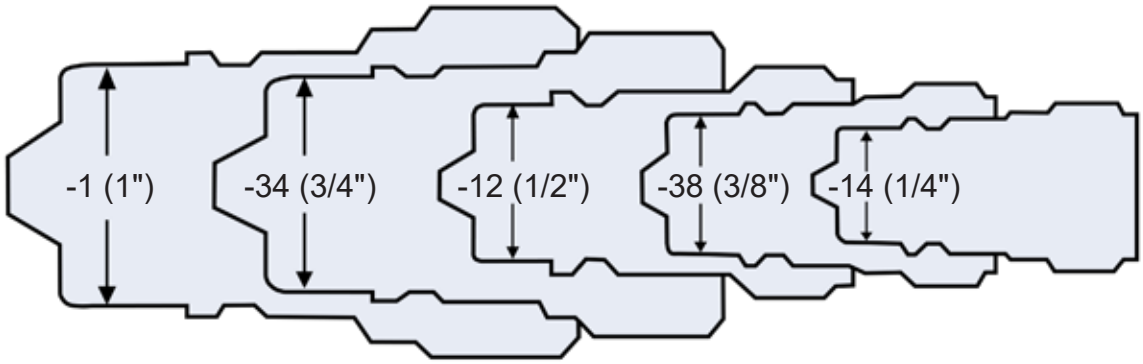


O-RING FACE SEAL

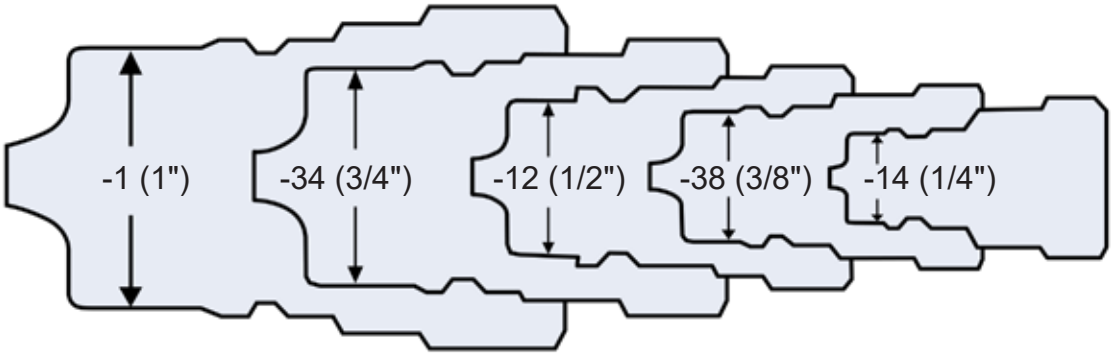


MALE PIPE

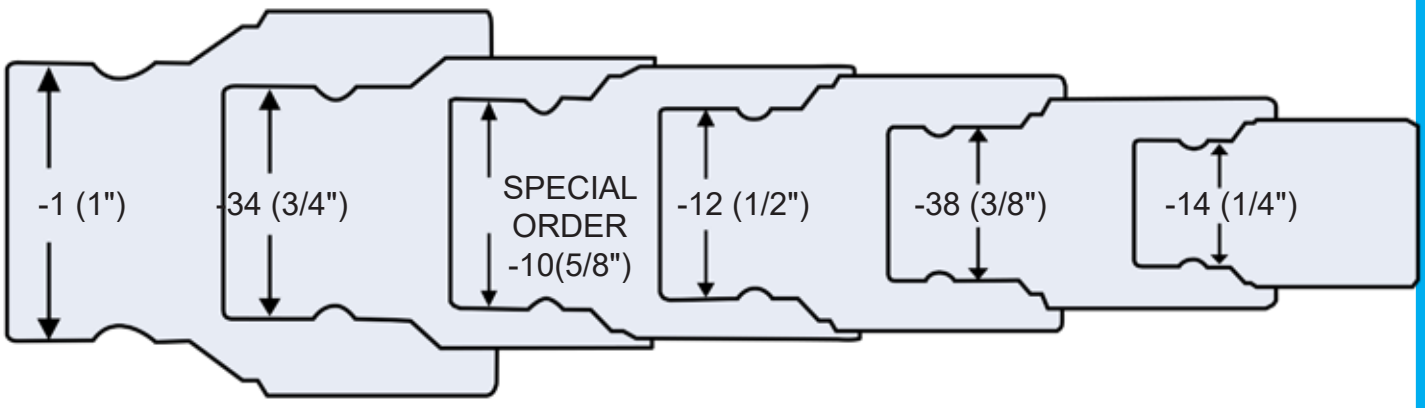




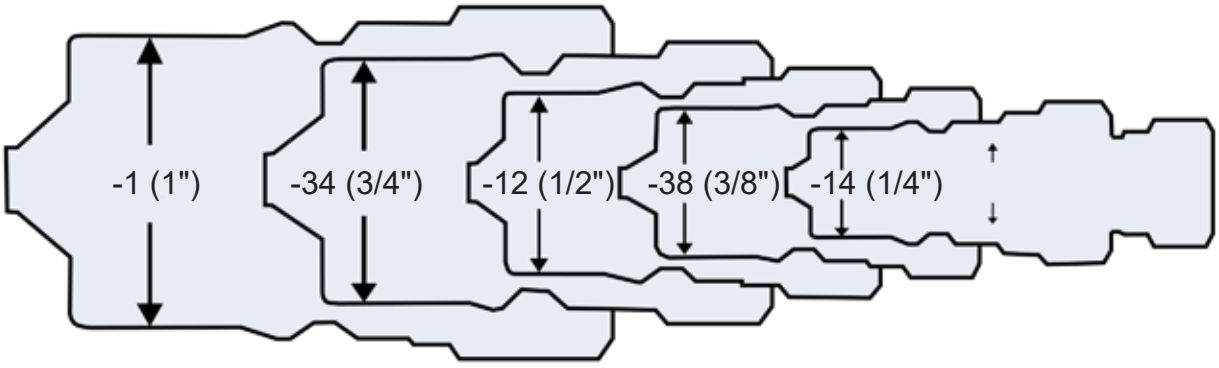
AG INTERCHANGE - NV SERIES



ISO 7241 - 1 - ISO A - ANV SERIES



ISO 16028 - FF SERIES



ISO 7241 - 1 ISO B - HNV SERIES

STEEL PIPE SWIVEL ADAPTERS

HYDRAULIC ADAPTERS

MALE PIPE SWIVEL ADAPTER

SAE 140130

1

2

PART #	MALE PIPE 1	FEMALE NPSM 2	
140422	1/8	1/8	----
140442	1/4	1/8	----
140444	1/4	1/4	----
140464	3/8	1/4	----
140466	3/8	3/8	----
140468	3/8	1/2	----
140484	1/2	1/4	----
140486	1/2	3/8	----
140488	1/2	1/2	----
1404812	1/2	3/4	----
1404126	3/4	3/8	----
1404128	3/4	1/2	----
14041212	3/4	3/4	----
14041216	3/4	1	----
14041612	1	3/4	----
14041616	1	1	----
14041620	1	1-1/4	----
14042024	1-1/4	1-1/2	----
14042016	1-1/4	1	----
14042020	1-1/4	1-1/4	----
14042424	1-1/2	1-1/2	----
14043232	2	2	----

1404 2045R 1210 9205R 0107

FEMALE PIPE SWIVEL ADAPTER

SAE 140131

1

2

PART #	FEMALE PIPE 1	FEMALE NPSM 2	
140522	1/8	1/8	----
140542	1/4	1/8	----
140544	1/4	1/4	----
140546	1/4	3/8	----
140564	3/8	1/4	----
140566	3/8	3/8	----
140586	1/2	3/8	----
140568	3/8	1/2	----
140584	1/2	1/4	----
140588	1/2	1/2	----
1405812	1/2	3/4	----
1405128	3/4	1/2	----
14051212	3/4	3/4	----
14051216	3/4	1	----
14051612	1	3/4	----
14051616	1	1	----
14052020	1-1/4	1-1/4	----
14052424	1-1/2	1-1/2	----
14053232	2	2	----

1405 2046R 1212 9255 C207

MALE PIPE ELBOW SWIVEL ADAPTER

1

SAE 140230

2

PART #	MALE PIPE 1	FEMALE NPSM 2	
150122	1/8	1/8	----
150124	1/8	1/4	----
150142	1/4	1/8	----
150144	1/4	1/4	----
150146	1/4	3/8	----
150148	1/4	1/2	----
150164	3/8	1/4	----
150166	3/8	3/8	----
1501612	3/8	3/4	----
150184	1/2	1/4	----
150186	1/2	3/8	----
150188	1/2	1/2	----
1501126	3/4	3/8	----
1501128	3/4	1/2	----
15011212	3/4	3/4	----
15011216	3/4	1	----
1501168	1	1/2	----
15011612	1	3/4	----
15011616	1	1	----
15012016	1-1/4	1	----
15012020	1-1/4	1-1/4	----
15013232	2	2	----

1501 2047R 1218 9405 2107

FEMALE UNION ELBOW SWIVEL ADAPTER

SAE 140231

1

2

PART #	FEMALE PIPE 1	FEMALE NPSM 2	
150222	1/8	1/8	----
150242	1/4	1/8	----
150244	1/4	1/4	----
150246	1/4	3/8	----
150264	3/8	1/4	----
150266	3/8	3/8	----
150268	3/8	1/2	----
150284	1/2	1/4	----
150286	1/2	3/8	----
150288	1/2	1/2	----
1502812	1/2	3/4	----
1502128	3/4	1/2	----
15021212	3/4	3/4	----
15021616	1	1	----
15022020	1-1/4	1-1/4	----
15022424	1-1/2	1-1/2	----

1502 2207 1216 94SSR

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

FEMALE PIPE SWIVELS
HYDRAULIC ADAPTERS

MALE 45° PIPE ELBOW SWIVEL ADAPTER
SAE 140330

PART #	MALE PIPE 1	FEMALE NPSM 2	
150322	1/8	1/8	----
150344	1/4	1/4	----
150346	1/4	3/8	----
150364	3/8	1/4	----
150366	3/8	3/8	----
150368	3/8	1/2	----
150384	1/2	1/4	----
150386	1/2	3/8	----
150388	1/2	1/2	----
1503812	1/2	3/4	----
1503128	3/4	1/2	----
15031212	3/4	3/4	----
15031216	3/4	1	----
15031612	1	3/4	----
15031616	1	1	----
15031620	1	1-1/4	----
15032020	1-1/4	1-1/4	----

1503 2049R 3107 1214 9355R

FEMALE 45° UNION ELBOW SWIVEL ADAPTER
SAE 140331

PART #	FEMALE PIPE 1	FEMALE NPSM 2	
150422	1/8	1/8	----
150444	1/4	1/4	----
150466	3/8	3/8	----
150488	1/2	1/2	----
15041212	3/4	3/4	----
15041616	1	1	----

1504 2050R 1249 9385R

MALE SWIVEL BRANCH TEE

PART #	FEMALE NPSM 1 & 2	MALE PIPE 3	
160122	1/8	1/8	----
160144	1/4	1/4	----
160166	3/8	3/8	----
160188	1/2	1/2	----
16011212	3/4	3/4	----
16011616	1	1	----

1601 2254R 1258 9406R

FEMALE SWIVEL TEE

PART #	FEMALE NPSM 1 & 2	FEMALE PIPE 3	
160244	1/4	1/4	----
160266	3/8	3/8	----
160288	1/2	1/2	----
16021212	3/4	3/4	----
16021616	1	1	----

1602 2253R 1259 9456R

FEMALE SWIVEL UNION TEE

PART #	FEMALE NPSM 1,2 & 3	
160344	1/4	----
160366	3/8	----
160388	1/2	----
16031212	3/4	----
16031616	1	----

1603 2255 1223 9705R

STRAIGHTS STEEL JIC FLARE 37°
HYDRAULIC ADAPTERS

LONG JIC TUBE NUT

SAE 070111

PART #	TUBE O.D	JIC THREAD SIZE	
03044	1/4	7/16-20	----
03046	3/8	9/16-18	----
03048	1/2	3/4-16	----
030410	5/8	7/8-14	----
030412	3/4	1-1/16-12	----
030416	1	1-5/16-12	----

304 221000 0304 C5115

SAE 070112
MS 51532

PART #	TUBE O.D.	JIC THREAD SIZE	
0304C2	1/8	5/16-24	----
0304C3	3/16	3/8-24	----
0304C4	1/4	7/16-20	----
0304C5	5/16	1/2-20	----
0304C6	3/8	9/16-18	----
0304C8	1/2	3/4-16	----
0304C10	5/8	7/8-14	----
0304C12	3/4	1-1/16-12	----
0304C14	7/8	1-3/16-12	----
0304C16	1	1-5/16-12	----
0304C20	1-1/4	1-5/8-12	----
0304C24	1-1/2	1-7/8-12	----
0304C32	2	2-1/2-12	----

820 304 210292 FNTX 1329 C5129

JIC TUBE NUT
(SLEEVE REQUIRED)

SAE 070110
MS 51531

PART #	TUBE O.D	JIC THREAD SIZE	
03182	1/8	5/16-24	----
03183	3/16	3/8-24	----
03184	1/4	7/16-20	----
03185	5/16	1/2-20	----
03186	3/8	9/16-18	----
03188	1/2	3/4-16	----
031810	5/8	7/8-14	----
031812	3/4	1-1/16-12	----
031814	7/8	1-3/16-12	----
031816	1	1-5/16-12	----
031820	1-1/4	1-5/8-12	----
031824	1-1/2	1-7/8-12	----

318 1290 BTX 1311 C5105

JIC TUBE SLEEVE

SAE 070115
MS 51533

PART #	TUBE O.D	
03192	1/8	----
03193	3/16	----
03194	1/4	----
03195	5/16	----
03196	3/8	----
03198	1/2	----
031910	5/8	----
031912	3/4	----
031914	7/8	----
031916	1	----
031920	1-1/4	----
031924	1-1/2	----
031932	2	----

319 900605 TX 1253 C5165

JIC TUBE UNION

SAE 070101
MS 51501

1

2

PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2	
240322	5/16-24	5/16-24	----
240333	3/8-24	3/8-24	----
240344	7/16-20	7/16-20	----
240355	1/2-20	1/2-20	----
240366	9/16-18	9/16-18	----
240364	9/16-18	7/16-20	----
240384	3/4-16	7/16-20	----
240388	3/4-16	3/4-16	----
240386	3/4-16	9/16-18	----
24031010	7/8-14	7/8-14	----
2403108	7/8-14	3/4-16	----
24031212	1-1/16-12	1-1/16-12	----
2403126	1-1/16-12	9/16-18	----
2403128	1-1/16-12	3/4-16	----
24031210	1-1/16-12	7/8-14	----
24031414	1-3/16-12	1-3/16-12	----
24031616	1-5/16-12	1-5/16-12	----
24031612	1-5/16-12	1-1/16-12	----
24032016	1-5/8-12	1-5/16-12	----
24032020	1-5/8-12	1-5/8-12	----
240324	1-7/8-12	1-7/8-12	----
240332	2-1/2-12	2-1/2-12	----

2403 2027 HTX 1204 C5305

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

STRAIGHTS STEEL JIC FLARE 37°

HYDRAULIC ADAPTERS

JIC MALE CONNECTOR

SAE 070102
MS 51500

PART #	JIC THREAD SIZE 1	MALEPIPE THREAD 2	
240422	5/16-24	1/8	----
240432	3/8-24	1/8	----
240434	3/8-24	1/4	----
240442	7/16-20	1/8	----
240444	7/16-20	1/4	----
240446	7/16-20	3/8	----
240448	7/16-20	1/2	----
240462	9/16-18	1/8	----
240464	9/16-18	1/4	----
240466	9/16-18	3/8	----
240468	9/16-18	1/2	----
2404612	9/16-18	3/4	----
240484	3/4-16	1/4	----
240486	3/4-16	3/8	----
240488	3/4-16	1/2	----
2404812	3/4-16	3/4	----
2404816	3/4-16	1	----
2404104	7/8-14	1/4	----
2404106	7/8-14	3/8	----
2404108	7/8-14	1/2	----
24041012	7/8-14	3/4	----
2404126	1-1/16-12	3/8	----
2404128	1-1/16-12	1/2	----
24041212	1-1/16-12	3/4	----
24041216	1-1/16-12	1	----
24041612	1-5/16-12	3/4	----
24041616	1-5/16-12	1	----
24041620	1-5/16-12	1-1/4	----
24041624	1-5/16-12	1-1/2	----
24042012	1-5/8-12	3/4	----
24042016	1-5/8-12	1	----
24042020	1-5/8-12	1-1/4	----
24042024	1-5/8-12	1-1/2	----
24042416	1-7/8-12	1	----
24042420	1-7/8-12	1-1/4	----
24042424	1-7/8-12	1-1/2	----
24042432	1-7/8-12	2	----
24043224	2-1/2-12	1-1/2	----
24043232	2-1/2-12	2	----

2404 2021R FTX 1202R C5205 816

JIC FEMALE CONNECTOR

SAE 070103
MS 51503

PART #	JIC THREAD SIZE 1	FEMALE PIPE SIZE 2	
240522	5/16-24	1/8	----
240532	3/8-24	1/8	----
240542	7/16-20	1/8	----
240544	7/16-20	1/4	----
240546	7/16-20	3/8	----
240564	9/16-18	1/4	----
240566	9/16-18	3/8	----
240584	3/4-16	1/4	----
240586	3/4-16	3/8	----
240588	3/4-16	1/2	----
2405812	3/4-16	3/4	----
2405106	7/8-14	3/8	----
2405108	7/8-14	1/2	----
2405128	1-1/16-12	1/2	----
24051212	1-1/16-12	3/4	----
24051216	1-1/16-12	1	----
24051612	1-5/16-12	3/4	----
24051616	1-5/16-12	1	----
24052020	1-5/8-12	1-1/4	----

2405 2022R GTX 1230R C5255

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

JIC REDUCER/ EXPANDER

SAE 070123 1

2

PART #	FEMALE JIC THREAD SIZE 1	MALE JIC THREAD SIZE 2	
240664	9/16-18	7/16-20	----
240665	9/16-18	1/2-20	----
240668	9/16-18	3/4-16	----
240684	3/4-16	7/16-20	----
240686	3/4-16	9/16-18	----
2406812	3/4-16	1-1/16-12	----
2406104	7/8-14	7/16-20	----
2406106	7/8-14	9/16-18	----
2406108	7/8-14	3/4-16	----
2406124	1-1/16-12	7/16-20	----
2406126	1-1/16-12	9/16-18	----
2406128	1-1/16-12	3/4-16	----
24061210	1-1/16-12	7/8-14	----
24061216	1-1/16-12	1-5/16-12	----
2406164	1-5/16-12	7/16-20	----
2406166	1-5/16-12	9/16-18	----
2406168	1-5/16-12	3/4-16	----
24061612	1-5/16-12	1-1/16-12	----
24061620	1-5/16-12	1-5/8-12	----
2406208	1-5/8-12	3/4-16	----
24062012	1-5/8-12	1-1/16-12	----
24062012	1-5/8-12	1-1/16-12	----
24062016	1-5/8-12	1-5/16-12	----
24062416	1-7/8-12	1-5/16-12	----
24062420	1-7/8-12	1-5/8-12	----
24063224	2-1/2-12	1-7/8-12	----

2406 C5015 2215 TRTX 1246

PLUG

SAE 070109
MS 51518

PART #	TUBE O.D.	JIC THREAD SIZE	
24082	1/8	5/16-24	----
24083	3/16	3/8-24	----
24084	1/4	7/16-20	----
24085	5/16	1/2-20	----
24086	3/8	9/16-18	----
24088	1/2	3/4-16	----
240810	5/8	7/8-14	----
240812	3/4	1-1/16-12	----
240814	7/8	1-3/16-12	----
240816	1	1-5/16-12	----
240820	1-1/4	1-5/8-12	----
240824	1-1/2	1-7/8-12	----
240832	2	2-1/2-12	----

2408 430549 PNTX 1254 C5229

STEEL 37° JIC FLARE SHAPES

JIC UNION ELBOW

SAE 070201
MS 51505

1

2

PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2	
250022	5/16-24	5/16-24	----
250044	7/16-20	7/16-20	----
250055	1/2-20	1/2-20	----
250066	9/16-18	9/16-18	----
250064	9/16-18	7/16-20	----
250088	3/4-16	3/4-16	----
250086	3/4-16	9/16-18	----
25001010	7/8-14	7/8-14	----
25001212	1-1/16-12	1-1/16-12	----
25001612	1-5/16-12	1-1/16-12	----
25001616	1-5/16-12	1-5/16-12	----
25002020	1-5/8-12	1-5/8-12	----
25002424	1-7/8-12	1-7/8-12	----
25003232	2-1/2-12	2-1/2-12	----

2500 2039 1234 C5505 821

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

STRAIGHTS STEEL JIC FLARE 37°

HYDRAULIC ADAPTERS

JIC MALE ELBOW

SAE 070202
MS 51504

PART #	JIC THREAD SIZE 1	MALE PIPE SIZE 2	
250122	5/16-24	1/8	----
250142	7/16-20	1/8	----
250144	7/16-20	1/4	----
250146	7/16-20	3/8	----
250148	7/16-20	1/2	----
250162	9/16-18	1/8	----
250164	9/16-18	1/4	----
250166	9/16-18	3/8	----
250168	9/16-18	1/2	----
2501612	9/16-18	3/4	----
250184	3/4-16	1/4	----
250186	3/4-16	3/8	----
250188	3/4-16	1/2	----
2501812	3/4-16	3/4	----
2501816	3/4-16	1	----
2501106	7/8-14	3/8	----
2501108	7/8-14	1/2	----
2501128	1-1/16-12	1/2	----
25011212	1-1/16-12	3/4	----
25011216	1-1/16-12	1	----
25011612	1-5/16-12	3/4	----
25011616	1-5/16-12	1	----
25011620	1-5/16-12	1-1/4	----
25012016	1-5/8-12	1	----
25012020	1-5/8-12	1-1/4	----
25012024	1-5/8-12	1-1/2	----
25012420	1-7/8-12	1-1/4	----
25012424	1-7/8-12	1-1/2	----
25013232	2-1/2-12	2	----

1208R C5405 2501 2024R CTX 822

JIC FEMALE ELBOW

SAE 070203
MS 51506

PART #	JIC THREAD SIZE 1	FEMALE PIPE SIZE 2	
250242	7/16-20	1/8	----
250244	7/16-20	1/4	----
250246	7/16-20	3/8	----
250262	9/16-18	1/8	----
250264	9/16-18	1/4	----
250266	9/16-18	3/8	----
250268	9/16-18	1/2	----
250284	3/4-16	1/4	----
250286	3/4-16	3/8	----
250288	3/4-16	1/2	----
2502128	1-1/16-12	1/2	----
25021212	1-1/16-12	3/4	----
25021612	1-5/16-12	3/4	----
25021616	1-5/16-12	1	----
25022020	1-5/8-12	1-1/4	----

2502 2025R DTX 1240R C5455

JIC MALE 45° ELBOW

SAE 070302
MS 51508

PART #	JIC THREAD SIZE 1	MALE PIPE SIZE 2	
250322	5/16-24	1/8	----
250342	7/16-20	1/8	----
250344	7/16-20	1/4	----
250346	7/16-20	3/8	----
250362	9/16-18	1/8	----
250364	9/16-18	1/4	----
250366	9/16-18	3/8	----
250368	9/16-18	1/2	----
2503612	9/16-18	3/4	----
250384	3/4-16	1/4	----
250386	3/4-16	3/8	----
250388	3/4-16	1/2	----
2503106	7/8-14	3/8	----
2503108	7/8-14	1/2	----
25031012	7/8-14	3/4	----
25031212	1-1/16-12	3/4	----
25031216	1-1/16-12	1	----
25031616	1-5/16-12	1	----
25031620	1-5/16-12	1-1/4	----
25032016	1-5/8-12	1	----
25032020	1-5/8-12	1-1/4	----

2503 2023R VTX 1206R C5355 823

SHAPES STEEL JIV FLARE 37°
HYDRAULIC ADAPTERS

JIC MALE BRANCH TEE

PART #	JIC THREAD SIZE 1&2	PIPE THREAD SIZE 3	
260144	7/16-20	1/4	----
260166	9/16-18	3/8	----
260188	3/4-16	1/2	----
26011212	1-1/16-12	3/4	----

2601 2030R STX 1221R C5605

JIC FEMALE BRANCH TEE

SAE 070427
MS 51513

PART #	JIC THREAD SIZE 1 & 2	FEMALE PIPE SIZE 3	
260244	7/16-20	1/4	----
260266	9/16-18	3/8	----
260288	3/4-16	1/2	----

2602 2031R OTX 1228R C6566

JIC UNION TEE

SAE 070401
MS 51510

PART #	JIC THREAD SIZE 1 & 2	JIC THREAD SIZE 3	
260322	5/16-24	5/16-24	----
260333	3/8-24	3/8-24	----
260344	7/16-20	7/16-20	----
260366	9/16-18	9/16-18	----
260388	3/4-16	3/4-16	----
26031010	7/8-14	7/8-14	----
26031212	1-1/16-12	1-1/16-12	----
26031616	1-5/16-12	1-5/16-12	----

2603 2033 JTX 1220 C5705

STEEL BULKHEAD FITTINGS

LOCK NUT

SAE 070118
MS 51860

*** Lock Nut no longer included on fittings**

PART #	THREAD SIZE	
03062	5/16-24	----
03064	7/16-20	----
03065	1/2-20	----
03066	9/16-18	----
03068	3/4-16	----
030610	7/8-14	----
030612	1-1/16-12	----
030614	1-3/16-12	----
030616	1-5/16-12	----
030620	1-5/8-12	----

1306 894 210212 WLN 1332 C5624

JIC BULKHEAD UNION

SAE 070601
MS 51520

PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2	
270022	5/16-24	5/16-24	----
270044	7/16-20	7/16-20	----
270055	1/2-20	1/2-20	----
270066	9/16-18	9/16-18	----
27008	3/4-16	3/4-16	----
270010	7/8-14	7/8-14	----
270012	1-1/16-12	1-1/16-12	----
270014	1-3/16-12	1-3/16-12	----
270016	1-5/16-12	1-5/16-12	----

2700 2041R WTX 1260 C5325

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

JIC BULKHEAD UNION ELBOW

SAE 070701
MS 51507

PART #	JIC THREAD SIZE 1	JIC BULKHEAD THREAD 2	
27014	7/16-20	7/16-20	----
27015	1/2-20	1/2-20	----
27016	9/16-18	9/16-18	----
27018	3/4-16	3/4-16	----
270110	7/8-14	7/8-14	----
270112	1-1/16-12	1-1/16-12	----
270116	1-5/16-12	1-5/16-12	----
270120	1-5/8-12	1-5/8-12	----

2701 2043R WETX 1262 C5525

JIC BULKHEAD UNION 45° ELBOW

SAE 070801
MS 51509

PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2	
27024	7/16-20	7/16-20	----
27026	9/16-18	9/16-18	----
27028	3/4-16	3/4-16	----
270210	7/8-14	7/8-14	----
270212	1-1/16-12	1-1/16-12	----
270216	1-5/16-12	1-5/16-12	----

2702 2042 WNTX 1261 C5375

JIC BULKHEAD BRANCH TEE

SAE 070959
MS 51515

PART #	JIC THREAD SIZE 1&2	JIC THREAD SIZE 3	
27034	7/16-20	7/16-20	----
27036	9/16-18	9/16-18	----
27038	3/4-16	3/4-16	----
270310	7/8-14	7/8-14	----
270312	1-1/16-12	1-1/16-12	----
270316	1-5/16-12	1-5/16-12	----

2703 203002 WJT 1283 C5725

JIC BULKHEAD RUN TEE

SAE 070958
MS 51516

PART #	JIC THREAD SIZE 1&3	JIC THREAD SIZE 2	
27044	7/16-20	7/16-20	----
27046	9/16-18	9/16-18	----
27048	3/4-16	3/4-16	----
270410	7/8-14	7/8-14	----
270412	1-1/16-12	1-1/16-12	----
270416	1-5/16-12	1-5/16-12	----

2704 203008 WJJT 1284 C5726

JIC TO FEMALE PIPE BULKHEAD

PART #	JIC THREAD	FEMALE PIPE SIZE 2	
270544	7/16-20	3/8	----
270566	9/16-18	1/2	----
270588	3/4-16	3/4	----
27051212	1-1/16-12	1	----
27051616	1-5/16-12	1-1/4	----
27052020	1-5/8-12		----

2705 2239 WGTX C5275

JIC TO MALE PIPE BULKHEAD

PART #	JIC THREAD SIZE 1	PIPE THREAD SIZE 2	
270644	7/16-20	1/4	----
270666	9/16-18	3/8	----
270688	3/4-16	1/2	----
27061212	1-1/16-12	3/4	----
27061616	1-5/16-12	1	----

2706 2240

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

**** Lock Nuts sold separately - pg. 403***

STEEL PIPE FITTINGS
HYDRAULIC ADAPTERS

PIPE COUPLING

SAE 140138

910

PART #	FEMALE PIPE 1	FEMALE PIPE 2	
50002	1/8	1/8	----
500042	1/4	1/8	----
50004	1/4	1/4	----
500064	3/8	1/4	----
500066	3/8	3/8	----
500084	1/2	1/4	----
500086	1/2	3/8	----
50008	1/2	1/2	----
5000128	3/4	1/2	----
50001212	3/4	3/4	----
5000168	1	1/2	----
50001612	1	3/4	----
500016	1	1	----
50002020	1-1/4	1-1/4	----
500024	1-1/2	1-1/2	----
500032	2	2	----

5000 2096 GG 1273 C3309

HEX PIPE NIPPLES

SAE 140137

PART #	MALE PIPE 1	MALE PIPE 2	
54042	1/8	1/8	----
540442	1/4	1/8	----
54044	1/4	1/4	----
540462	3/8	1/8	----
540464	3/8	1/4	----
54046	3/8	3/8	----
540484	1/2	1/4	----
540486	1/2	3/8	----
54048	1/2	1/2	----
5404126	3/4	3/8	----
5404128	3/4	1/2	----
540412	3/4	3/4	----
5404166	1	3/8	----
5404168	1	1/2	----
54041612	1	3/4	----
540416	1	1	----
54042012	1-1/4	3/4	----
54042016	1-1/4	1	----
540420	1-1/4	1-1/4	----
54042412	1-1/2	3/4	----
54042416	1-1/2	1	----
54042420	1-1/2	1-1/4	----
540424	1-1/2	1-1/2	----
54043224	2	1-1/2	----

5404 2083 FF 1252 C3069 911

EXPANDING PIPE ADAPTER

SAE 140139

PART #	MALE PIPE 1	FEMALE PIPE 2	
540522	1/8	1/8	----
540524	1/8	1/4	----
540542	1/4	1/8	----
540544	1/4	1/4	----
540548	1/4	1/2	----
540564	3/8	1/4	----
540566	3/8	3/8	----
540568	3/8	1/2	----
5405612	3/8	3/4	----
540588	1/2	1/2	----
5405812	1/2	3/4	----
5405816	1/2	1	----
54051212	3/4	3/4	----
54051216	3/4	1	----
54051220	3/4	1-1/4	----
54051616	1	1	----
54051620	1	1-1/4	----
54052020	1-1/4	1-1/4	----
54052024	1-1/4	1-1/2	----
54052424	1-1/2	1-1/2	----

920 5405 2040 FG-(R) 1274 C3209(R)

5406 2081 PTR 1250 C3109 912

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

HEX REDUCER BUSHING

SAEF1
140140

PART #	MALE PIPE	FEMALE PIPE	
540642	1/4	1/8	----
540662	3/8	1/8	----
540664	3/8	1/4	----
540682	1/2	1/8	----
540684	1/2	1/4	----
540686	1/2	3/8	----
5406124	3/4	1/4	----
5406126	3/4	3/8	----
5406128	3/4	1/2	----
5406164	1	1/4	----
5406166	1	3/8	----
5406168	1	1/2	----
54061612	1	3/4	----
5406206	1-1/4	3/8	----
5406208	1-1/4	1/2	----
54062012	1-1/4	3/4	----
54062016	1-1/4	1	----
5406248	1-1/2	1/2	----
54062412	1-1/2	3/4	----
54062416	1-1/2	1	----
54062420	1-1/2	1-1/4	----
54063212	2	3/4	----
54063216	2	1	----
54063220	2	1-1/4	----
54063224	2	1-1/2	----

HEX HEAD PLUG

SAE 130109E

PART #	MALE PIPE	
5406P2	1/8	----
5406P4	1/4	----
5406P6	3/8	----
5406P8	1/2	----
5406P12	3/4	----
5406P16	1	----
5406P20	1-1/4	----
5406P24	1-1/2	----
5406P32	2	----

933 5406P 2082 HP 1251 C3159

HOLLOW HEX PLUG

SAE 130109

PART #	MALE PIPE	
5406HHP2	1/8	----
5406HHP4	1/4	----
5406HHP6	3/8	----
5406HHP8	1/2	----
5406HHP12	3/4	----
5406HHP16	1	----
5406HHP20	1-1/4	----
5406HHP24	1-1/2	----

C3169 2222

FLUSH HOLLOW HEX PLUG W/ 7/8 TAPER

PART #	MALE PIPE	
5406FLP2	1/8	----
5406FLP4	1/4	----
5406FLP6	3/8	----
5406FLP8	1/2	----
5406FLP12	3/4	----

SQUARE HEAD PLUG

SAE 130109A

PART #	MALE PIPE	
5406SHP2	1/8	----
5406SHP4	1/4	----
5406SHP6	3/8	----
5406SHP8	1/2	----
5406SHP12	3/4	----
5406SHP16	1	----
5406SHP20	1-1/4	----
5406SHP24	1-1/2	----
5406SHP32	2	----

C3179

PIPE CAP

PART #	FEMALE PIPE	
5406C2	1/8	----
5406C4	1/4	----
5406C6	3/8	----
5406C8	1/2	----
5406C12	3/4	----
5406C16	1	----

HPC

MALE ELBOW

SAE 140237

PART #	MALE PIPE 1	MALE PIPE 2	
55002	1/8	1/8	----
550042	1/4	1/8	----
55004	1/4	1/4	----
550064	3/8	1/4	----
55006	3/8	3/8	----
550084	1/2	1/4	----
550086	1/2	3/8	----
55008	1/2	1/2	----
5500128	3/4	1/2	----
55001212	3/4	3/4	----
55001612	1	3/4	----
550016	1	1	----
55001612	1	3/4	----
55002016	1-1/4	1	----
55002020	1-1/4	1-1/4	----
550024	1-1/2	1-1/2	----
550032	2	2	----

919 5500 2085 CR 1275 C3529

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL PIPE FITTINGS
HYDRAULIC ADAPTERS

45° MALE ELBOW

PART #	MALE PIPE 1	MALE PIPE 2	
550122	1/8	1/8	----
550144	1/4	1/4	----
550166	3/8	3/8	----
55018	1/2	1/2	----
55011212	3/4	3/4	----
55011616	1	1	----

5501 2247

90° STREET ELBOW

SAE 140239

PART #	MALE PIPE 1	FEMALE PIPE 2	
55022	1/8	1/8	----
55024	1/4	1/4	----
550264	3/8	1/4	----
55026	3/8	3/8	----
550268	3/8	1/2	----
550284	1/2	1/4	----
550286	1/2	3/8	----
550288	1/2	1/2	----
550212	3/4	3/4	----
5502812	1/2	3/4	----
5502128	3/4	1/2	----
55021612	1	3/4	----
55021616	1	1	----
550220	1-1/4	1-1/4	----
550224	1-1/2	1-1/2	----

5502 2089 CD 1234R C3409 914

45° STREET ELBOW

SAE 140339

PART #	MALE PIPE 1	FEMALE PIPE 2	
55032	1/8	1/8	----
55034	1/4	1/4	----
55036	3/8	3/8	----
55038	1/2	1/2	----
55031212	3/4	3/4	----
550316	1	1	----

5503 CD45 1244

FEMALE ELBOW

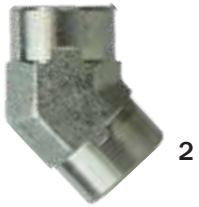
SAE 140238

PART #	FEMALE PIPE 1	FEMALE PIPE 2	
55042	1/8	1/8	----
550442	1/4	1/8	----
55044	1/4	1/4	----
55046	3/8	3/8	----
550484	1/2	1/4	----
550486	1/2	3/8	----
55048	1/2	1/2	----
5504128	3/4	1/2	----
550412	3/4	3/4	----
55041612	1	3/4	----
550416	1	1	----
550420	1-1/4	1-1/4	----
550424	1-1/2	1-1/2	----

5504 2087 DD 1245 C3509 916

45° FEMALE ELBOW

SAE 140338



PART #	FEMALE PIPE 1	FEMALE PIPE 2	
55054	1/4	1/4	----
55056	3/8	3/8	----
55058	1/2	1/2	----
550512	3/4	3/4	----
550516	1	1	----
550520	1-1/4	1-1/4	----

5505 DD45 1241 C3559

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

MALE PIPE TEE

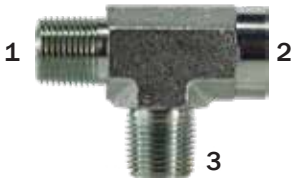
SAE 140437

PART #	MALE PIPE 1 & 2	MALE PIPE 3	
560022	1/8	1/8	----
560044	1/4	1/4	----
560066	3/8	3/8	----
560088	1/2	1/2	----
560012	3/4	3/4	----
560016	1	1	----

5600 2257 RRS

FEMALE RUN PIPE TEE

SAE 1404276



PART #	MALE PIPE 1 & 3	FEMALE PIPE 2	
560322	1/8	1/8	----
560344	1/4	1/4	----
560366	3/8	3/8	----
560388	1/2	1/2	----
560312	3/4	3/4	----
560316	1	1	----

5603 2093 MMO 1277

FEMALE BRANCH PIPE TEE

SAE 140427

PART #	MALE PIPE 1 & 2	FEMALE PIPE 3	
560122	1/8	1/8	----
560144	1/4	1/4	----
560166	3/8	3/8	----
560112	3/4	3/4	----
560116	1	1	----

901 5601 2256

MALE BRANCH PIPE TEE

PART #	FEMALE PIPE 1 & 2	MALE PIPE 3	
560422	1/8	1/8	----
560444	1/4	1/4	----
560466	3/8	3/8	----
560488	1/2	1/2	----
560412	3/4	3/4	----
560416	1	1	----

904 5604 2091 MMS 1278 C3609

STREET PIPE TEE

SAE 140424

PART #	MALE PIPE 1	FEMALE PIPE 2 & 3	
560222	1/8	1/8	----
560244	1/4	1/4	----
560266	3/8	3/8	----
560288	1/2	1/2	----
560212	3/4	3/4	----
560216	1	1	----

902 5602 2092 MRO 1276 C3759

FEMALE PIPE TEE

SAE 140438

PART #	FEMALE PIPE	
560522	1/8	----
560544	1/4	----
560566	3/8	----
56058	1/2	----
560512	3/4	----
560516	1	----
560520	1-1/4	----

917 5605 2090 1225 C3709

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STEEL O-RING ADAPTERS

HYDRAULIC ADAPTERS

JIC TO O-RING CONNECTOR

SAE 070120
MS 51525

PART #	JIC THREAD SIZE 1	O-RING THREAD 2	
64002	5/16-24	5/16-24	----
64003	3/8-24	3/8-24	----
64004	7/16-20	7/16-20	----
640042	7/16-20	5/16-24	----
640046	7/16-20	9/16-18	----
640048	7/16-20	3/4-16	----
64005	1/2-20	1/2-20	----
64006	9/16-18	9/16-18	----
640064	9/16-18	7/16-20	----
640068	9/16-18	3/4-16	----
6400610	9/16-18	7/8-14	----
6400612	9/16-18	1-1/16-12	----
6400616	9/16-18	1-5/16-12	----
64008	3/4-16	3/4-16	----
640084	3/4-16	7/16-20	----
640086	3/4-16	9/16-18	----
6400810	3/4-16	7/8-14	----
6400812	3/4-16	1-1/16-12	----
640010	7/8-14	7/8-14	----
6400106	7/8-14	9/16-18	----
6400108	7/8-14	3/4-16	----
64001012	7/8-14	1-1/16-12	----
640012	1-1/16-12	1-1/16-12	----
6400128	1-1/16-12	3/4-16	----
64001210	1-1/16-12	7/8-14	----
64001214	1-1/16-12	1-3/16-12	----
64001216	1-1/16-12	1-5/16-12	----
640016	1-5/16-12	1-5/16-12	----
64001612	1-5/16-12	1-1/16-12	----
64001620	1-5/16-12	1-5/8-12	----
64001624	1-5/16-12	1-7/8-12	----
640020	1-5/8-12	1-5/8-12	----
64002012	1-5/8-12	1-1/16-12	----
64002016	1-5/8-12	1-5/16-12	----
64002024	1-5/8-12	1-7/8-12	----
640024	1-7/8-12	1-7/8-12	----
64002420	1-7/8-12	1-5/8-12	----
64002432	1-7/8-12	2-1/2-12	----
640032	2-1/2-12	2-1/2-12	----
64003224	2-1/2-12	1-7/8-12	----

6400 202702R F50X 1231 C5315

O-RING TO PIPE ADAPTER

PART #	O-RING THREAD 1	MALE PIPE THREAD 2	
640142	7/16-20	1/8	----
640144	7/16-20	1/4	----
640164	9/16-18	1/4	----
640166	9/16-18	3/8	----
640186	3/4-16	3/8	----
640188	3/4-16	1/2	----
6401812	3/4-16	3/4	----
6401108	7/8-14	1/2	----
6401128	1-1/16-12	1/2	----
64011212	1-1/16-12	3/4	----
64011616	1-5/16-12	1	----
64012020	1-5/8-12	1-1/4	----
64012020	1-5/8-12	1-1/4	----
64012424	1-7/8-12	1-1/2	----

6401 F5X 1264R C3249

O-RING TO 37° JIC - SWIVEL ADAPTER

PART #	O-RING THREAD 1	JIC THREAD SIZE 2	
6402O44	7/16-20	7/16-20	----
6402O66	9/16-18	9/16-18	----
6402O68	9/16-18	3/4-16	----
6402O88	3/4-16	3/4-16	----
6402O86	3/4-16	9/16-18	----
6402O1010	7/8-14	7/8-14	----
6402O1212	1-1/16-12	1-1/16-12	----

6402 2266 F65X 1213 9316

O-RING HEX NIPPLE UNION

PART #	O-RING THRD 1	O-RING THRD 2	
6403O4	7/16-20	7/16-20	----
6403O6	9/16-18	9/16-18	----
6403O8	3/4-16	3/4-16	----
6403O12	1-1/16-12	1-1/16-12	----
6403O16	1-5/16-12	1-5/16-12	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL O-RING ADAPTERS
HYDRAULIC ADAPTERS

FEMALE O-RING TO MALE PIPE ADAPTER

PART #	O-RING THREAD 1	MALE PIPE THREAD 2	
640442	7/16-20	1/8	----
640444	7/16-20	1/4	----
640464	9/16-18	1/4	----
640466	9/16-18	3/8	----
640468	9/16-18	1/2	----
640486	3/4-16	3/8	----
640488	3/4-16	1/2	----
6404108	7/8-14	1/2	----
64041212	1-1/16-12	3/4	----
64041616	1-5/16-12	1	----

6404 2246R 1267R C3239 FHG5

O-RING TO FEMALE PIPE ADAPTER

PART #	O-RING THREAD 1	FEMALE PIPE THREAD 2	
6405O22	5/16-24	1/8	----
6405O42	7/16-20	1/8	----
6405O32	3/8-24	1/8	----
6405O34	3/8-24	1/4	----
6405O44	7/16-20	1/4	----
6405O52	1/2-20	1/8	----
6405O54	1/2-20	1/4	----
6405O62	9/16-18	1/8	----
6405O64	9/16-18	1/4	----
6405O66	9/16-18	3/8	----
6405O68	9/16-8	1/2	----
6405O84	3/4-16	1/4	----
6405O86	3/4-16	3/8	----
6405O88	3/4-16	1/2	----
6405O812	3/4-16	3/4	----
6405O104	7/8-14	1/4	----
6405O106	7/8-14	3/8	----
6405O108	7/8-14	1/2	----
6405O126	1-1/16-12	3/8	----
6405O128	1-1/16-12	1/2	----
6405O1212	1-1/16-12	3/4	----
6405O1216	1-1/16-12	1	----
6405O1612	1-5/16-12	3/4	----
6405O1616	1-5/16-12	1	----
6405O2020	1-5/8-12	1-1/4	----
6405O2416	1-7/8-12	1	----
6405O2420	1-7/8-12	1-1/4	----
6405O2424	1-7/8-12	1-1/2	----
6405O3224	2-1/2-12	1-1/2	----
6405O3232	2-1/2-12	2	----

6405 2216R F50G 1268R C3269

O-RING HEX HEAD PLUG

SAE 090109A

**** Not all sizes are solid***

PART #	O-RING THREAD	
6408O2	5/16-24	----
6408O4	7/16-20	----
6408O5	1/2-20	----
6408O6	9/16-18	----
6408O8	3/4-16	----
6408O10	7/8-14	----
6408O12	1-1/16-12	----
6408O14	1-3/16-12	----
6408O16	1-5/16-12	----
6408O20	1-5/8-12	----
6408O24	1-7/8-12	----

6408 900598 P50N 1265 7237

O-RING HOLLOW - HEX HEAD PLUG

SAE 090109B

PART #	O-RING THREAD	
6408HO2	5/16-24	----
6408HO4	7/16-20	----
6408HO5	1/2-20	----
6408HO6	9/16-18	----
6408HO8	3/4-16	----
6408HO10	7/8-14	----
6408HO12	1-1/16-12	----
6408HO14	1-3/16-12	----
6408HO16	1-5/16-12	----
6408HO20	1-5/8-12	----
6408HO24	1-7/8-12	----

6408HHP FF2138 HP50N 1256 7238 6409

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

FEMALE SWIVELS JIC
HYDRAULIC ADAPTERS

O-RING PORT REDUCER/EXPANDER

PART #	O-RING THREAD 1	O-RING THREAD 2	
6410O46	7/16-20	9/16-18	----
6410O64	9/16-18	7/16-20	----
6410O68	9/16-18	3/4-16	----
6410O84	3/4-16	7/16-20	----
6410O86	3/4-16	9/16-18	----
6410O88	3/4-16	3/4-16	----
6410O812	3/4-16	1-1/16-12	----
6410O124	1-1/16-12	7/16-20	----
6410O126	1-1/16-12	9/16-18	----
6410O128	1-1/16-12	3/4-16	----
6410O166	1-5/16-12	9/16-18	----
6410O168	1-5/16-12	3/4-16	----
6410O1612	1-5/16-12	1-1/16-12	----
6410O2012	1-5/8-12	1-1/16-12	----
6410O2016	1-5/8-12	1-5/16-12	----
6410O2412	1-7/8-12	1-1/16-12	----
6410O2416	1-7/8-12	1-5/16-12	----
6410O2420	1-7/8-12	1-5/8-12	----
6410O3216	2-1/2-12	1-5/16-12	----
6410O3220	2-1/2-12	1-5/8-12	----
6410O3224	2-1/2-12	1-7/8-12	----

6410 FF1010 F50G5 1270 7033

JIC SWIVEL NUT ELBOW

SAE 070221
MS 51521

PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2	
65004	7/16-20	7/16-20	----
65006	9/16-18	9/16-18	----
65008	3/4-16	3/4-16	----
650086	3/4-16	9/16-18	----
650010	7/8-14	7/8-14	----
6500108	7/8-14	3/4-16	----
650012	1-1/16-12	1-1/16-12	----
650016	1-5/16-12	1-5/16-12	----
650020	1-5/8-12	1-5/8-12	----
650024	1-7/8-12	1-7/8-12	----
650032	2-1/2-12	2-1/2-12	----

6500 2071R C6X 1236 G5506

JIC SWIVEL TO MALE PIPE ELBOW

PART #	JIC THREAD SIZE 1	MALE PIPE THREAD 2	
650142	7/16-20	1/8	----
650144	7/16-20	1/4	----
650164	9/16-18	1/4	----
650166	9/16-18	3/8	----
650186	3/4-16	3/8	----
650188	3/4-16	1/2	----
6501108	7/8-14	1/2	----
65011212	1-1/16-12	3/4	----
65011616	1-5/16-12	1	----
65012020	1-5/8-12	1-1/4	----
65012424	1-7/8-12	1-1/2	----
65013232	2-1/2-12	2	----

6501 2250 1247R TF5406

JIC SWIVEL 45° ELBOW

SAE 070321
MS 51522

PART #	JIC THREAD	JIC THREAD SIZE 2	
65024	7/16-20	9/16-18	----
65026	9/16-18	3/4-16	----
65028	3/4-16	7/8-14	----
650210	7/8-14	1-1/16-12	----
650212	1-1/16-12	1-5/16-12	----
650216	1-5/16-12		----

JIC SWIVEL TO FEMALE - PIPE ELBOW

PART #	JIC THREAD SIZE 1	FEMALE PIPE THREAD 2	
650344	7/16-20	1/4	----
650364	9/16-18	1/4	----
650366	9/16-18	3/8	----
650386	3/4-16	3/8	----
650388	3/4-16	1/2	----
65031212	1-1/16-12	3/4	----

6502 2070R V6X 1237 C5356

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

FEMALE SWIVELS
HYDRAULIC ADAPTERS

JIC SWIVEL CONNECTOR

PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2	
650444	7/16-20	7/16-20	----
650466	9/16-18	9/16-18	----
650488	3/4-16	3/4-16	----
65041010	7/8-14	7/8-14	----
65041212	1-1/16-12	1-1/16-12	----
65041616	1-5/16-12	1-5/16-12	----
65042020	1-5/8-12	1-5/8-12	----

6504 1205

JIC SWIVEL TO MALE - PIPE ADAPTER

PART #	JIC THREAD SIZE 1	MALE PIPE THREAD 2	
650542	7/16-20	1/8	----
650544	7/16-20	1/4	----
650546	7/16-20	3/8	----
650564	9/16-18	1/4	----
650566	9/16-18	3/8	----
650586	3/4-16	3/8	----
650588	3/4-16	1/2	----
6505128	1-1/16-12	1/2	----
65051212	1-1/16-12	3/4	----
65051612	1-5/16-12	3/4	----
65051616	1-5/16-12	1	----
65052424	1-7/8-12	1-1/2	----

6505 2018 F6X 1211 9100R

JIC SWIVEL TO FEMALE PIPE ADAPTER

PART #	JIC THREAD SIZE 1	FEMALE PIPE THREAD 2	
650642	7/16-20	1/8	----
650644	7/16-20	1/4	----
650664	9/16-18	1/4	----
650666	9/16-18	3/8	----
650668	9/16-18	1/2	----
650686	3/4-16	3/8	----
650688	3/4-16	1/2	----
6506106	7/8-14	3/8	----
6506128	1-1/16-12	1/2	----
65061212	1-1/16-12	3/4	----
65061616	1-5/16-12	1	----
65062020	1-5/8-12	1-1/4	----
65062424	1-7/8-12	1-1/2	----
65063232	2-1/2-12	2	----

6506 2242 1215

JIC SWIVEL BRANCH TEE

SAE 070433
MS 51524

PART #	JIC THREAD SIZE 1 & 2	JIC FEMALE THREAD 3	
660044	7/16-20	7/16-20	----
660066	9/16-18	9/16-18	----
660088	3/4-16	3/4-16	----
660010	7/8-14	7/8-14	----
660012	1-1/16-12	1-1/16-12	----
660016	1-5/16-12	1-5/16-12	----
660020	1-5/8-12	1-5/8-12	----

6600 203101R 55X 1227 C5707

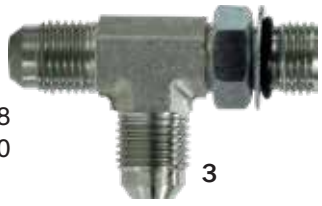
JIC SWIVEL RUN TEE

SAE 070432
MS 51523

PART #	JIC THREAD SIZE 1 & 3	JIC FEMALE THREAD 2	
66024	7/16-20	7/16 -20	----
66025	1/2-20	1/2-20	----
66026	9/16-18	9/16-18	----
66028	3/4-16	3/4-16	----
660212	1-1/16-12	1-1/16-12	----
660216	1-5/16-12	1-5/16-12	----
660224	1-7/8-12	1-7/8-12	----

6602 203102R R6X 1248 C5706

JIC TO O-RING RUN TEE



SAE 070428
MS 51530

PART #	JIC THREAD SIZE 1 & 3	O-RING THREAD SIZE 2	
6804NWO4	7/16-20	7/16-20	----
6804NWO6	9/16-18	9/16-18	----
6804NWO8	3/4-16	3/4-16	----
6804NWO10	7/8-14	7/8-14	----
6804NWO12	1-1/16-12	1-1/16-12	----
6804NWO16	1-5/16-12	1-5/16-12	----

6804 203005R R50X 1266R C5716

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL O-RING ADAPTERS

HYDRAULIC ADAPTERS

JIC TO O-RING ELBOW CONNECTOR

SAE 070220
MS 51527

PART #	JIC THREAD SIZE 1	O-RING THREAD SIZE 2	
6801NWO4	7/16-20	7/16-20	----
6801NWO46	7/16-20	9/16-18	----
6801NWO48	7/16-20	3/4-16	----
6801NWO6	9/16-18	9/16-18	----
6801NWO64	9/16-18	7/16-20	----
6801NW068	9/16-18	3/4-16	
6801NWO612	9/16-18	1-1/16-12	----
6801NWO8	3/4-16	3/4-16	----
6801NWO86	3/4-16	9/16-18	----
6801NWO810	3/4-16	7/8-14	----
6801NWO812	3/4-16	1-1/16-12	----
6801NWO816	3/4-16	1-5/16-12	----
6801NWO10	7/8-14	7/8-14	----
6801NWO106	7/8-14	9/16-18	----
6801NWO108	7/8-14	3/4-16	----
6801NWO1016	7/8-14	1-5/16-12	----
6801NWO12	1-1/16-12	1-1/16-12	----
6801NWO128	1-1/16-12	3/4-16	----
6801NWO1210	1-1/16-12	7/8-14	----
6801NWO1216	1-1/16-12	1-5/16-12	----
6801NWO16	1-5/16-12	1-5/16-12	----
6801NWO1612	1-5/16-12	1-1/16-12	----
6801NWO1620	1-5/16-12	1-5/8-12	----
6801NWO20	1-5/8-12	1-5/8-12	----
6801NWO2016	1-5/8-12	1-5/16-12	----
6801NWO2024	1-5/8-12	1-7/8-12	----
6801NWO24	1-7/8-12	1-7/8-12	----
6801NWO32	2-1/2-12	2-1/2-12	----

6801 2062R C50X 1238L C5515

JIC TO O-RING - BRANCH TEE

SAE 070429
MS 51529

PART #	JIC THREAD SIZE 1 & 2	O-RING THREAD SIZE 3	
6803NWO4	7/16-20	7/16-20	----
6803NWO6	9/16-18	9/16-18	----
6803NWO8	3/4-16	3/4-16	----
6803NWO10	7/8-14	7/8-14	----
6803NWO12	1-1/16-12	1-1/16-12	----
6803NWO16	1-5/16-12	1-5/16-12	----

6803 203003X S50X 1265R C5715

JIC TO O-RING 45° ELBOW

SAE 070320
MS 51528

PART #	JIC THREAD SIZE 1	O-RING THREAD SIZE 2	
6802NWO2	5/16-24	5/16-24	----
6802NWO4	7/16-20	7/16-20	----
6802NWO46	7/16-20	9/16-18	----
6802NWO6	9/16-18	9/16-18	----
6802NWO68	9/16-18	3/4-16	----
6802NWO8	3/4-16	3/4-16	----
6802NWO86	3/4-16	9/16-18	----
6802NWO810	3/4-16	7/8-14	----
6802NWO812	3/4-16	1-1/16-12	----
6802NWO10	7/8-14	7/8-14	----
6802NWO108	7/8-14	3/4-16	----
6802NWO1012	7/8-14	1-1/16-12	----
6802NWO12	1-1/16-12	1-1/16-12	----
6802NWO1216	1-1/16-12	1-5/16-12	----
6802NWO16	1-5/16-12	1-5/16-12	----
6802NWO1612	1-5/16-12	1-1/16-12	----
6802NWO1620	1-5/16-12	1-5/8-12	----
6802NWO20	1-5/8-12	1-5/8-12	----
6802NWO2016	1-5/8-12	1-5/16-12	----
6802NWO24	1-7/8-12	1-7/8-12	----
6802NWO32	2-1/2-12	2-1/2-12	----

6802 2061 V50X 1240R C5365

O-RING TO - FEMALE PIPE ELBOW

PART #	O-RING THREAD SIZE 1	PIPE THREAD SIZE 2	
6805NWO42	7/16-20	1/8	----
6805NWO44	7/16-20	1/4	----
6805NWO64	9/16-18	1/4	----
6805NWO66	9/16-18	3/8	----
6805NWO86	3/4-16	3/8	----
6805NWO88	3/4-16	1/2	----
6805NWO108	7/8-14	1/2	----
6805NWO128	1-1/16-12	1/2	----
6805NWO1212	1-1/16-12	3/4	----
6805NWO1616	1-5/16-12	1	----
6805NWO2020	1-5/8-12	1-1/4	----
6805NWO2424	1-7/8-12	1-1/2	----

6805 206801R AE0G 1264 C3459

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL O-RINGS
HYDRAULIC ADAPTERS

O-RING TO MALE PIPE ELBOW

PART #	O-RING THREAD SIZE 1	PIPE THREAD SIZE 2	
6806NWO44	7/16-20	1/4	----
6806NWO66	9/16-18	3/8	----
6806NWO88	3/4-16	1/2	----
6806NWO1212	1-1/16-12	3/4	----
6806NWO1616	1-5/16-12	1	----

6806 1263 TF3569

O-RING TO 37° JIC SWIVEL NUT TO O-RING ELBOW

PART #	O-RING THREAD SIZE 1	JIC THREAD SIZE 2	
6809NWO44	7/16-20	7/16-20	----
6809NWO66	9/16-18	9/16-18	----
6809NWO88	3/4-16	3/4-16	----
6809NWO1212	1-1/16-12	1-1/16-12	----

FEMALE O-RING TO MALE O-RING ELBOW

PART #	O-RING THREAD SIZE 1	O-RING THREAD SIZE 2	
6815NWO44	7/16-20	7/16-20	----
6815NWO66	9/16-18	9/16-18	----
6815NWO88	3/4-16	3/4-16	----
6815NWO1010	7/8-14	7/8-14	----
6815NWO1212	1-1/16-12	1-1/16-12	----

MALE O-RING SWIVEL ADAPTER

SAE 140157

PART #	O-RING THREAD SIZE 1	FEMALE NPSM SIZE 2	
6900O42	7/16-20	1/8	----
6900O44	7/16-20	1/4	----
6900O46	7/16-20	3/8	----
6900O48	7/16-20	1/2	----
6900O64	9/16-18	1/4	----
6900O66	9/16-18	3/8	----
6900O68	9/16-18	1/2	----
6900O84	3/4-16	1/4	----
6900O86	3/4-16	3/8	----
6900O88	3/4-16	1/2	----
6900O812	3/4-16	3/4	----
6900O104	7/8-14	1/4	----
6900O106	7/8-14	3/8	----
6900O108	7/8-14	1/2	----
6900O1012	7/8-14	3/4	----
6900O128	1-1/16-12	1/2	----
6900O1212	1-1/16-12	3/4	----
6900O1612	1-5/16-12	3/4	----
6900O1616	1-5/16-12	1	----

6900 2066R 1235 9315

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For more information, visit www.P65Warnings.ca.gov

6401 2068R 1271 9515

STEEL SAE O-RING
HYDRAULIC ADAPTERS

90° O-RING SWIVEL ADAPTER

SAE 140257

PART #	O-RING THREAD SIZE 1	FEMALE NPSM SIZE 2	
6901NWO42	7/16-20	1/8	----
6901NWO44	7/16-20	1/4	----
6901NWO64	9/16-18	1/4	----
6901NWO66	9/16-18	3/8	----
6901NWO68	9/16-18	1/2	----
6901NWO84	3/4-16	1/4	----
6901NWO86	3/4-16	3/8	----
6901NWO88	3/4-16	1/2	----
6901NWO812	3/4-16	3/4	----
6901NWO104	7/8-14	1/4	----
6901NWO106	7/8-14	3/8	----
6901NWO108	7/8-14	1/2	----
6901NWO126	1-1/16-12	3/8	----
6901NWO128	1-1/16-12	1/2	----
6901NWO1212	1-1/16-12	3/4	----
6901NWO1612	1-5/16-12	3/4	----
6901NWO1616	1-5/16-12	1	----
6901NWO2016	1-5/8-12	1	----
6901NWO2020	1-5/8-12	1-1/4	----
6901NWO2424	1-7/8-12	1-1/2	----
6901NWO3232	2-1/2-12	2	----

45° O-RING SWIVEL ADAPTER

SAE 140357

PART #	O-RING THREAD SIZE 1	FEMALE NPSM SIZE 2	
6902NWO42	7/16-20	1/8	----
6902NWO44	7/16-20	1/4	----
6902NWO46	7/16-20	3/8	----
6902NWO64	9/16-18	1/4	----
6902NWO66	9/16-18	3/8	----
6902NWO68	9/16-18	1/2	----
6902NWO84	3/4-16	1/4	----
6902NWO86	3/4-16	3/8	----
6902NWO88	3/4-16	1/2	----
6902NWO108	7/8-14	1/2	----
6902NWO128	1-1/16-12	1/2	----
6902NWO1212	1-1/16-12	3/4	----
6902NWO1616	1-5/16-12	1	----

O-RINGS

VITON 75 SAE BOSS O-RING

Fluorocarbon

PART #	O-RING THREAD	
400122	5/16-24	----
400144	7/16-20	----
400166	9/16-18	----
400188	3/4-16	----
400110	7/8-14	----
400112	1-1/16-12	----
400116	1-5/16-12	----
400120	1-5/8-12	----
400124	1-7/8-12	----
400132	2-1/2-12	----

NITRILE 90 SAE BOSS O-RING

PART #	O-RING THREAD	
400022	5/16-24	----
400044	7/16-20	----
400066	9/16-18	----
400088	3/4-16	----
400010	7/8-14	----
400012	1-1/16-12	----
400014	1-3/16-12	----
400016	1-5/16-12	----
400020	1-5/8-12	----
400024	1-7/8-12	----
400032	2-1/2-12	----

BRAZE TUBE NUT
(SLEEVE REQUIRED)

SAE 520110

PART #	TUBE O.D.	BRAZE TUBE O.D.	
FSO3184	1/4	.25	----
FSO3186	3/8	.38	----
FSO3188	1/2	.50	----
FSO31810	5/8	.62	----
FSO31812	3/4	.72	----
FSO31816	1	1.00	----
FSO31820	1 1/4	1.25	----
FSO31824	1 1/2	1.50	----

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O-RING FACE SEAL ADAPTERS

HYDRAULIC ADAPTERS

BRAZE TUBE SLEEVE

SAE 520115

PART #	TUBE O.D.	
FSO3194	1/4	----
FSO3196	3/8	----
FSO3198	1/2	----
FSO31910	5/8	----
FSO31912	3/4	----
FSO31916	1	----
FSO31920	1-1/4	----

FF319 FF3019

See Page 414 for JIC Nut and Sleeve

CAP

SAE 520112

• Two Piece Nut/ Insert

PART #	TUBE O.D.	FACE SEAL THREAD	
FSO304C4	1/4	9/16-18	----
FSO304C6	3/8	11/16-16	----
FSO304C8	1/2	13/16-16	----
FSO304C10	5/8	1-14	----
FSO304C12	3/4	1-3/16-12	----
FSO304C16	1	1-7/16-12	----
FSO304C20	1-1/4	1-11/16-12	----
FSO304C24	1-1/2	2-12	----

FF304C

BULKHEAD LOCKNUT

SAE 520118

PART #	THREAD SIZE	
FSO3064	9/16-18	----
FSO3066	11/16-16	----
FSO3068	13/16-16	----
FSO30612	1-3/16-12	----
FSO30616	1-7/16-12	----

FF403

MALE UNION CONNECTOR

SAE 520102

1 2

PART #	TUBE O.D.	FACE SEAL THREAD 1&2	
FSO240344	1/4	9/16-18	----
FSO240366	3/8	11/16-16	----
FSO240388	1/2	13/16-16	----
FSO24031212	3/4	1-3/16-12	----
FSO24031616	1	1-7/16-12	----

FF2403 FF1203

MALE O-RING FACE SEAL ADAPTER

1 2

PART #	FACE SEAL THREAD 1	MALE PIPE SIZE 2	
FSO240444	9/16-18	1/4-18	----
FSO240446	9/16-18	3/8	----
FSO240464	11/16-16	1/4-18	----
FSO240466	11/16-16	3/8-18	----
FSO240484	13/16-16	1/4-18	----
FSO240486	13/16-16	3/8	----
FSO240488	13/16-16	1/2-14	----
FSO2404108	1-14	1/2	----
FSO24041212	1-3/16-12	3/4-14	----
FSO24041616	1-7/16-12	1-11-1/2	----
FSO24042020	1-11/16-12	1-1/4	----
FSO24042424	2-12	1-1/2	----

FF2404 4205 FLO

FEMALE ORFS TO MALE ORFS REDUCER

1 2

PART #	FEMALE FACE SEAL SIZE 1	MALE FACE SEAL THREAD 2	
FSO240664	11/16-16	9/16-18	----
FSO240684	13/16-16	9/16-18	----
FSO2406106	1-14	11/16-16	----
FSO2406108	1-14	13/16-16	----
FSO2406126	1-3/16-12	11/16-16	----

FF2406 TRLON

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O-RING FACE SEAL ADAPTERS

HYDRAULIC ADAPTERS

PLUG

SAE 520109

PART #	TUBE O.D.	FACE SEAL THREAD	
FSO24084	1/4	9/16-18	----
FSO24086	3/8	11/16-16	----
FSO24088	1/2	13/16-16	----
FSO240810	5/8	1-14	----
FSO240812	3/4	1-3/8-12	----
FSO240816	1	1-7/16-12	----
FSO240820	1-1/4	1-11/16-12	----
FSO240824	1-1/2	2-12	----

FF2408 FF1254 4229 PNLO

ORFS UNION ELBOW 90°

PART #	FACE SEAL THREAD 1	FACE SEAL THREAD 2	
FS250044	9/16-18	9/16-18	----
FS250066	11/16-16	11/16-16	----
FS25001010	1-14	1-14	----
FS25001212	1-3/16-12	1-3/16-12	----
FS25001616	1-7/16-12	1-7/16-12	----

FF2500 4505 ELO

ORFS TO MALE ELBOW

SAE 520202

PART #	FACE SEAL THREAD 1	MALE PIPE THREAD 2	
FS250144	9/16-18	1/4	----
FS250164	11/16-16	1/4	----
FS250166	11/16-16	3/8	----
FS250186	13/16-16	3/8	----
FS250188	13/16-16	1/2	----
FS2501812	13/16-16	3/4	----
FS2501108	1-14	1/2	----
FS25011012	1-14	3/4	----
FS2501128	1-3/8-12	1/2	----
FS25011212	1-3/8-12	3/4	----
FS25011216	1-3/8-12	1	----
FS25011616	1-7/16-12	1	----
FS25012020	1-11/16-12	1-1/4	----
FS25012424	2-12	1-1/2	----

FF2501 FF1208 4405 CLO

ORFS TO PIPE ELBOW 45°

PART #	FACE SEAL THREAD 1	MALE PIPE THREAD 2	
FS250344	9/16-18	1/4	----
FS250366	11/16-16	3/8	----
FS250388	13/16-16	1/2	----
FS25031212	1-3/16-12	3/4	----
FS25031616	1-7/16-12	1	----

FF2503 4355 VLO

ORFS UNION TEE

PART #	FACE SEAL THREAD 1+2+3	
FS260344	9/16-18	----
FS260366	11/16-16	----
FS260388	13/16-16	----
FS26031212	1-3/16-12	----

MALE FLAT FACE TO FEMALE 37 ° SWIVEL

PART #	FACE SEAL THREAD 1	JIC THREAD 2	
FS640244	9/16-18	7/16-20	----
FS640266	11/16-16	9/16-18	----
FS640288	13/16-16	3/4-16	----
FS64021010	1-14	7/8-14	----
FS64021212	1-3/16-12	1-1/16-12	----

FF6402 FF1294

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O-RING FACE SEAL ADAPTERS

HYDRAULIC ADAPTERS

MALE ORFS TO ORB CONNECTOR

SAE 520120

PART #	FACE SEAL THREAD 1	O-RING THREAD 2	
FS6400O44	9/16-18	7/16-20	----
FS6400O46	9/16-18	9/16-18	----
FS6400O64	11/16-16	7/16-20	----
FS6400O66	11/16-16	9/16-18	----
FS6400O68	11/16-16	3/4-16	----
FS6400O86	13/16-16	9/16-18	----
FS6400O88	13/16-16	3/4-16	----
FS6400O810	13/16-16	7/8-14	----
FS6400O108	1-14	3/4-16	----
FS6400O1010	1-14	7/8-14	----
FS6400O1012	1-14	1-1/16-12	----
FS6400O128	1-3/16-12	3/4-16	----
FS6400O1210	1-3/16-12	7/8-14	----
FS6400O1212	1-3/16-12	1-1/16-12	----
FS6400O1216	1-3/16-12	1-5/16-12	----
FS6400O1612	1-7/16-12	1-1/16-12	----
FS6400O1616	1-7/16-12	1-5/16-12	----
FS6400O1620	1-7/16-12	1-5/8-12	----
FS6400O2020	1-11/16-12	1-5/8-12	----
FS6400O2024	1-11/16-12	1-7/8-12	----
FS6400O2424	2-12	1-7/8-12	----

4315 FF6400 FF1231

SWIVEL NUT ELBOW

PART #	FACE SEAL THREAD 1	FACE SEAL THREAD 2	
FS650044	9/16-18	9/16-18	----
FS650066	11/16-16	11/16-16	----
FS650088	13/16-16	13/16-16	----
FS65001212	1-3/16-12	1-3/16-12	----

FF6500 FF1236

MALE JIC 37° FLARE TO FEMALE FLAT FACE SWIVEL

PART #	JIC THREAD SIZE 1	FACE SEAL THREAD 2	
FS650444	7/16-20	9/16-18	----
FS650466	9/16-18	11/16-16	----
FS650488	3/4-16	13/16-16	----
FS65041010	7/8-14	1-14	----
FS65041616	1-5/16-12	1-7/16-12	----

FF6504 FF1296

O-RING ELBOW CONNECTOR

PART #	FACE SEAL THREAD 1	O-RING THREAD 2	
FS680144	9/16-18	7/16-20	----
FS680146	9/16-18	9/16-18	----
FS680164	11/16-16	7/16-20	----
FS680166	11/16-16	9/16-18	----
FS680168	11/16-16	3/4-16	----
FS680186	13/16-16	9/16-18	----
FS680188	13/16-16	3/4-16	----
FS6801810	13/16-16	7/8-14	----
FS6801108	1-14	3/4-16	----
FS68011012	1-14	1-1/16-12	----
FS68011210	1-3/16-12	7/8-14	----
FS68011212	1-3/16-12	1-1/16-12	----
FS68011216	1-3/16-12	1-5/16-12	----
FS68011616	1-7/16-12	1-5/16-12	----
FS68011620	1-7/16-12	1-5/8-12	----
FS68012016	1-11/16-12	1-5/16-12	----
FS68012020	1-11/16-12	1-5/8-12	----
FS68012424	2-12	1-7/8-12	----

FF6801 FF1238 4515

ORFS TO O-RING ELBOW 45°

PART #	FACE SEAL THREAD 1	O-RING SIZE 2	
FS680244	9/16-18	7/16-20	----
FS680266	11/16-16	9/16-18	----
FS680288	13/16-16	3/4-16	----
FS68021010	1-14	7/8-14	----
FS68021212	1-3/16-12	1-1/16-12	----
FS68021616	1-7/16-12	1-5/16-12	----
FS68022020	1-11/16-12	1-5/8-12	----

FF6802 4365 V5OLO

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL BSPT ADAPTERS
HYDRAULIC ADAPTERS

STRAIGHT THREAD SWIVEL NUT ELBOW

PART #	O-RING THREAD 1	FACE SEAL THREAD 2	
FS680944	7/16-20	9/16-18	----
FS680966	9/16-18	11/16-16	----
FS680988	3/4-16	13/16-16	----
FS68091212	1-1/16-12	1-3/16-12	----

FF6809 FF1239 4535 AOELC

STEEL BSPT ADAPTERS

JIC MALE CONNECTOR BSPT

PART #	JIC THREAD SIZE 1	MALE BSPT 2	
700042	7/16-20	1/8-28	----
700044	7/16-20	1/4-19	----
700064	9/16-18	1/4-19	----
700066	9/16-18	3/8-19	----
700068	9/16-18	1/2-14	----
700086	3/4-16	3/8-19	----
700088	3/4-16	1/2-14	----
7000812	3/4-16	3/4-14	----
7000108	7/8-14	1/2-14	----
70001012	7/8-14	3/4-14	----
7000128	1-1/16-12	1/2-14	----
70001212	1-1/16-12	3/4-14	----
70001616	1-5/16-12	1-11	----

3404 3O5

JIC MALE ELBOW BSPT

PART #	JIC THREAD SIZE 1	MALE BSPT 2	
720042	7/16-20	1/8-28	----
720044	7/16-20	1/4-19	----
720064	9/16-18	1/4-19	----
720066	9/16-18	3/8-19	----
720068	9/16-18	1/2-14	----
720086	3/4-16	3/8-19	----
720088	3/4-16	1/2-14	----
72001212	1-1/16-12	3/4-14	----

3501 315

BSPT HEX NIPPLE

PART #	MALE BSPT 1	MALE BSPT 2	
752022	1/8-28	1/8-28	----
752044	1/4-19	1/4-19	----
752066	3/8-19	3/8-19	----
752088	1/2-14	1/2-14	----
75201010	5/8-14	5/8-14	----
75201212	3/4-14	3/4-14	----

3520 MBT

BSPT PLUG

PART #	BSPT	
95082	1/8-28	----
95084	1/4-19	----
95086	3/8-19	----
95088	1/2-14	----
950812	3/4-14	----
950816	1-11	----

100B-Y KA-RM MHL 296

STEEL BSPP ADAPTERS

BSPP HEX NIPPLE

PART #	MALE BSPP 1	MALE BSPP 2	
742022	1/8-28	1/8-28	----
742042	1/4-19	1/8-28	----
742064	3/8-19	1/4-19	----
742066	3/8-19	3/8-19	----
742086	1/2-14	3/8-19	----
742088	1/2-14	1/2-14	----
7420108	5/8-14	1/2-14	----
7420128	3/4-14	1/2-14	----
74201212	3/4-14	3/4-14	----
74201612	1-11	3/4-14	----
74201616	1-11	1-11	----

3420 MB 9022

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL BSPP ADAPTERS

HYDRAULIC ADAPTERS

BSPP COUPLING

PART #	BSPP	
74252	1/8-28	----
74254	1/4-19	----
74258	1/2-14	----
742510	5/8-14	----
742512	3/4-14	----
742516	1-11	----

3425 FB

JIC TO FEMALE BSPP STRAIGHT SWIVEL

PART #	JIC THREAD SIZE 1	FEMALE BSPP SWIVEL 2	
72404	7/16-20	1/4-19	----
72406	9/16-18	3/8-19	----
72408	3/4-16	1/2-14	----
724010	7/8-14	5/8-14	----
724012	1-1/16-12	3/4-14	----
724016	1-5/16-12	1-11	----

3240 MJFBS

JIC TO BSPP MALE ELBOW

PART #	JIC THREAD SIZE 1	MALE BSPP 2	
7202NWO42	7/16-20	1/8-28	----
7202NWO44	7/16-20	1/4-19	----
7202NWO64	9/16-18	1/4-19	----
7202NWO66	9/16-18	3/8-19	----
7202NWO68	9/16-18	1/2-14	----
7202NWO86	3/4-16	3/8-19	----
7202NWO88	3/4-16	1/2-14	----
7202NWO812	3/4-16	3/4-14	----
7202NWO108	7/8-14	1/2-14	----
7202NWO1212	1-1/16-12	3/4-14	----
7202NWO1216	1-1/16-12	1-11	----
7202NWO1616	1-5/16-12	1-11	----

3801 315

JIC TO BSPP 45° ELBOW

PART #	JIC THREAD SIZE 1	MALE BSPP 2	
78024	7/16-20	1/4-19	----
78026	9/16-18	3/8-19	----
78028	3/4-16	1/2-14	----
780212	1-1/16-12	3/4-14	----
780216	1-5/16-12	1-11	----

3802 35J

BSPP TO MALE PIPE NIPPLE

PART #	MALE BSPP SIZE 1	MALE PIPE THREAD SIZE 2	
78252	1/8-28	1/8	----
78254	1/4-19	1/4	----
78256	3/8-19	3/8	----
78258	1/2-14	1/2	----
782512	3/4-14	3/4	----
782516	1-11	1	----

MBMP 3825

JIC TO BSPP MALE CONNECTOR

PART #	JIC THREAD SIZE 1	MALE BSPP 2	
700242	7/16-20	1/8-28	----
700244	7/16-20	1/4-19	----
700246	7/16-20	3/8-19	----
700248	7/16-20	1/2-14	----
700264	9/16-18	1/4-19	----
700266	9/16-18	3/8-19	----
700268	9/16-18	1/2-14	----
700286	3/4-16	3/8-19	----
700288	3/4-16	1/2-14	----
7002812	3/4-16	3/4-14	----
7002108	7/8-14	1/2-14	----
70021212	1-1/16-12	3/4-14	----
70021216	1-1/16-12	1-11	----
70021616	1-5/16-12	1-11	----

30J 3800

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

JIC TO BSPP STRAIGHT SWIVEL

PART #	JIC THREAD SIZE 1	MALE BSPP 2	
702242	7/16-20	1/8-28	----
702244	7/16-20	1/4-19	----
702266	9/16-18	3/8-19	----
702288	3/4-16	1/2-14	----
7022108	7/8-14	1/2-14	----
70221212	1-1/16-12	3/4-14	----
70221616	1-5/16-12	1-11	----

3402 3055

HEX HEAD PLUG BSPP

PART #	MALE BSPP	
9522P2	1/8-28	----
9522P4	1/4-19	----
9522P6	3/8-19	----
9522P8	1/2-14	----
9522P12	3/4-14	----
9522P16	1-11	----

3408

HOLLOW HEX PLUG BSPP

PART #	MALE BSPP	
9522H2	1/8-28	----
9522H4	1/4-19	----
9522H6	3/8-19	----
9522H8	1/2-14	----
9522H12	3/4-14	----
9522H16	1-11	----

3408 HHP

FEMALE ADAPTER BSPP

PART #	FEMALE PIPE 1	MALE BSPP 2	
704222	1/8	1/8-28	----
704242	1/4	1/8-28	----
704244	1/4	1/4-19	----
704266	3/8	3/8-19	----
704288	1/2	1/2-14	----
70421212	3/4	3/4-14	----
70421616	1	1-11	----

3455 MMFP

STEEL METRIC ADAPTERS

MALE CONNECTOR

PART #	JIC THREAD SIZE 1	METRIC THREAD 2	
7005410	7/16-20	10x1.0	----
7005412	7/16-20	12x1.5	----
7005414	7/16-20	14x1.5	----
7005418	7/16-20	18x1.5	----
7005512	1/2-20	12x1.5	----
7005514	1/2-20	14x1.5	----
7005614	9/16-18	14x1.5	----
7005616	9/16-18	16x1.5	----
7005618	9/16-18	18x1.5	----
7005816	3/4-16	16x1.5	----
7005818	3/4-16	18x1.5	----
7005822	3/4-16	22x1.5	----
70051018	7/8-14	18x1.5	----
70051020	7/8-14	20x1.5	----
70051022	7/8-14	22x1.5	----
70051222	1-1/16-12	22x1.5	----

Port-seal crush washer and O-ring included 7400 30J (R) 7011

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL METRIC ADAPTERS
HYDRAULIC ADAPTERS

MALE ELBOW

PART #	JIC THREAD SIZE 1	METRIC THREAD 2	
7205NWO410	7/16-20	10x1.0	----
7205NWO412	7/16-20	12x1.5	----
7205NWO414	7/16-20	14x1.5	----
7205NWO512	1/2-20	12x1.5	----
7205NWO614	9/16-18	14x1.5	----
7205NWO616	9/16-18	16x1.5	----
7205NWO816	3/4-16	16x1.5	----
7205NWO818	3/4-16	18x1.5	----
7205NWO822	3/4-16	22x1.5	----
7205NWO1018	7/8-14	18x1.5	----

Port-seal crush washer and O-ring included

7801 315 (R)

PART #	JIC THREAD SIZE 1	METRIC THREAD 2	
7025410	7/16-20	10x1.0	----
7025412	7/16-20	12x1.5	----
7025512	1/2-20	12x1.5	----
7025614	9/16-18	14x1.5	----
7025616	9/16-18	16x1.5	----
7025816	3/4-16	16x1.5	----
70251022	7/8-14	22x1.5	----
70251227	1-1/16-12	27x2.0	----
70251633	1-5/16-12	33x2.0	----

7402 30JS (R)

HEX HEAD PLUG METRIC PARALLEL

PART #	METRIC THREAD	
8555P10	10x1.0	----
8555P12	12x1.5	----
8555P14	14x1.5	----
8555P16	16x1.5	----
8555P18	18x1.5	----
8555P20	20x1.5	----
8555P22	22x1.5	----
8555P26	26x1.5	----
8555P30	30x1.5	----

7408

HOLLOW HEX HEAD PLUG

PART #	METRIC THREAD	
8555H10	10x1.0	----
8555H12	12x1.5	----
8555H14	14x1.5	----
8555H16	16x1.5	----
8555H18	18x1.5	----
8555H20	20x1.5	----
8555H22	22x1.5	----
8555H26	26x1.5	----
8555H30	30x1.5	----

7408 HHP

FEMALE ADAPTER

PART #	FEMALE PIPE THREAD 1	METRIC THREAD 2	
7045210	1/8	10x1.0	----
7045412	1/4	12x1.5	----
7045414	1/4	14x1.5	----
7045612	3/8	12x1.5	----
7045616	3/8	16x1.5	----
7045618	3/8	18x1.5	----
7045816	1/2	16x1.5	----
7045818	1/2	18x1.5	----
7045822	1/2	22x1.5	----
70451227	3/4	27x2.0	----
70451633	1	33x2.0	----

MMFP (R)

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

ISO A AND B INTERCHANGE

HYDRAULIC ADAPTERS

THREAD TO CONNECT, DRYBREAK NO-SPILL QUICK CONNECT

- Brass Body
- Steel Wing Nut
- Buna-Seal (-40° to +250°F)

Aeroquip 5100
Parker 6100
Snaptite B78

- Bonded Face Seal
- External ORing Alleviates Full Connection

PART #	BODY SIZE	FEMALE NPT	MAX PSI		PART #	BODY SIZE	FEMALE NPT	MAX PSI	
61150	3/4	1/2	3000	----	61050	3/4	1/2	3000	----
61152	3/4	3/4	3000	----	61052	3/4	3/4	3000	----
61153	1	1	3000	----	61053	1	1	3000	----
61154	1-1/4	1-1/4	2750	----	61054	1-1/4	1-1/4	2750	----

FEATURES - **ISO A and ISO B**

- Poppet valves to prevent uncoupled leakage
- Critical parts are induction hardened for durability
- Dependable ball-locking mechanism holds the maling halves together
- Socket and plug are precision machined from solid barstock
- Standard nitrile seals temp range -40°F to +250°F

ISO 7241-1 ISO-A Interchange (Connected)				
Body Size	*Steel Coupler/ Plug*			
	Maximum Working		*Burst*	
	PSI	Bar	PSI	Bar
1/4"	5,000	345	18,270	1,200
3/8"	4,000	275	18,270	1,200
1/2"	4,000	275	16,500	1,100
3/4"	4,000	275	14,800	1,000
1"	4,000	275	12,400	850

INTERCHANGE DATA:

- Parker 6600, Aeroquip/ Eaton FD56, Dixon 'K' Series.
- Hansen HA 15000, Safeway S56

ISO-A FEMALE PIPE COUPLER

PART #	BODY SIZE	NPT	
ANV14F	1/4"	1/4"	----
ANV38F	3/8"	3/8"	----
ANV12F	1/2"	1/2"	----
ANV34F	3/4"	3/4"	----
ANV1F	1"	1"	----

ISO-A FEMALE PIPE PLUG

PART #	BODY SIZE	NPT	
ANV14M	1/4"	1/4"	----
ANV38M	3/8"	3/8"	----
ANV12M	1/2"	1/2"	----
ANV34M	3/4"	3/4"	----
ANV1M	1"	1"	----

ISO 7241-1 Series B ISO-B Interchange (Connected)								
Body Size	*Steel Coupler/ Plug*				*Brass Coupler/ Plug*			
	Max. Working		*Burst*		*Max. Working*		*Burst*	
	PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar
1/4"	5,000	345	22,500	1,550	3,000	200	15,000	1,000
3/8"	4,000	275	16,500	1,150	2,500	175	12,000	800
1/2"	4,000	275	16,000	1,100	2,500	175	11,500	750
3/4"	4,000	275	16,500	1,150	2,000	150	12,000	800
1"	4,000	275	16,000	1,100	1,500	100	8,500	800

INTERCHANGE DATA:

- Parker 60 Series, Snap-tite 72 series, Dixon 'H' series
- Hansen HK - series, Aeroquip/ Eaton FDH5

B=BRASS

BRASS - HNV SERIES PLUG

BRASS - HNV SERIES COUPLER

ISO-B FEMALE PIPE COUPLER

PART #	BODY SIZE	NPT	
HNV14F	1/4"	1/4"	----
HNV14FB	1/4"	1/4"	----
HNV38F	3/8"	3/8"	----
HNV38FB	3/8"	3/8"	----
HNV12F	1/2"	1/2"	----
HNV12FB	1/2"	1/2"	----
HNV34F	3/4"	3/4"	----
HNV34FB	3/4"	3/4"	----

ISO-B FEMALE PIPE PLUG

PART #	BODY SIZE	NPT	
HNV14M	1/4"	1/4"	----
HNV14MB	1/4"	1/4"	----
HNV38M	3/8"	3/8"	----
HNV38MB	3/8"	3/8"	----
HNV12M	1/2"	1/2"	----
HNV12MB	1/2"	1/2"	----
HNV34M	3/4"	3/4"	----
HNV34MB	3/4"	3/4"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FLUSH FACE ISO
HYDRAULIC ADAPTERS

FEATURES
• Steel construction, zinc plated trivalent finish. Hardened Nipples and sleeves and solid barstock construction for maximum resistance to damage from hydraulic and mechanical shock.
• This Anti-Blowout Nitrile/ PTFE bonded seal is designed to prevent blow out or damage during servere service conditions.
• Durable ball-locking mechanism assures reliable connection everytime.
• Temp Range -65° to +250°

ISO 16028

FLUSH FACE

Body Size	Steel Coupler/ Plug Coupled			
	Maximum Working		Burst	
	PSI	Bar	PSI	Bar
1/4"	5,000	345	18,270	1,200
3/8"	4,000	275	18,270	1,200
1/2"	4,000	275	16,500	1,100
5/8"	4,000	275	14,800	1,000
3/4"	4,000	275	12,400	850
1"	3,000	200	12,600	850

FF Series
HTMC
74C

FEMALE PIPE COUPLER

PART #	BODY SIZE	NPT	
FF14F	1/4"	1/4"	----
FF38F	3/8"	3/8"	----
FF12F	1/2"	1/2"	----
FF3812F	3/8"	1/2"	----
FF1234F	1/2"	3/4"	----
FF3416F	3/4"	1"	----
FF34F	3/4"	3/4"	----
FF-1-F	1"	1"	----

FF Series
HTMN
74N

FEMALE PIPE PLUG

PART #	BODY SIZE	NPT	
FF14M	1/4"	1/4"	----
FF38M	3/8"	3/8"	----
FF12M	1/2"	1/2"	----
FF3812M	3/8"	1/2"	----
FF1234M	1/2"	3/4"	----
FF3416M	3/4"	1"	----
FF34M	3/4"	3/4"	----
FF1M	1"	1"	----

FLAT FACE THREAD LOCK - VEP QUICK COUPLING

SPECIFICATIONS

BODY SIZE (IN)	1/2(12)	3/4(34)	1(1)	1-1/2(24)
Rated Pressure (PSI)	7000	7000	6000	5000
Rated Flow (GPM)	12	50	88	152
Temperature Range	-20°C +120°C			

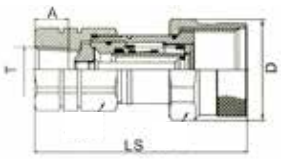
Standard seal material is **NBR**

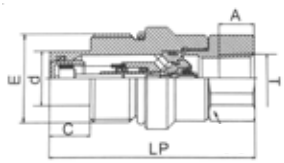
Test Fluid-Oil = 200 SUS

APPLICATIONS
• Widely used in public equipment
• Portable construction equipment.
• Hydraulic tools
• Vehicles

FEATURES
• New valve design provides better resistance from high flow and the pressure of impulse, thus providing advanced performance.
• Special nipple design for connecting under pressure, allows connection and disconnection with high residual pressures.
• The LSQ-VEP series employs a threaded sleeve locking mechanism, mates with matching male threads on the coupler.
• New plating treatment provides advanced anti-rust performance.
• LSQ-VEP series couplings employ flush valving when connecting or disconnecting, therefore only a small amount of fluid can be lost during disconnecting or air inclusion during reconnection.
• The Anti-Blowout bonded seal is designed to prevent blow-out or damage during severe service conditions.
• Machined form solid steel barstock for durability. Compatible with most other VEP series.

• O-Ring SAE Boss Thread available with import lead time (same list price)





FEMALE COUPLER

PART #	LS	D	A	NPT	
LSQVEP12SF	4.09	1.13	0.67	1/2	----
LSQVEP34SF	4.49	2.13	0.79	3/4	----
LSQVEP1SF	5.28	2.33	0.83	1	----
LSQVEP20SF	5.71	2.72	0.83	1-1/4	----
LSQVEP24SF	7.41	3.63	0.83	1-1/2	----

FEMALE PLUG

PART #	LS	D	A	NPT	
LSQVEP12PF	4.09	1.13	0.67	1/2	----
LSQVEP34PF	4.49	2.13	0.79	3/4	----
LSQVEP1PF	5.28	2.33	0.83	1	----
LSQVEP20PF	5.71	2.72	0.83	1-1/4	----
LSQVEP24PF	7.41	3.63	0.83	1-1/2	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

QUICK DISCONNECT - HYDRAULIC JACK

HYDRAULIC ADAPTERS

AG - Series Agricultural Interchange (Connected)				
Nominal Size	*Steel Coupler/ Plug*			
	Maximum Working		*Burst*	
	PSI	Bar	PSI	Bar
1/4"	4,000	275	21,000	1,500
3/8"	4,000	275	23,100	1,600
1/2"	4,000	275	16,500	1,100
3/4"	3,000	200	10,300	700
1"	3,000	200	13,000	900

Snap-Tite 60 Series

FEMALE PIPE COUPLER

Part #	Body Size	NPT	
NV14F	1/4"	1/4"	----
NV38F	3/8"	3/8"	----
NV12F	1/2"	1/2"	----
NV34F	3/4"	3/4"	----
NV1F	1"	1"	----

FEMALE PIPE PLUG

Part #	Body Size	NPT	
NV14M	1/4"	1/4"	----
NV38M	3/8"	3/8"	----
NV12M	1/2"	1/2"	----
NV34M	3/4"	3/4"	----
NV1M	1"	1"	----

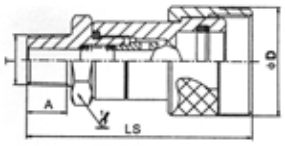
FEATURES

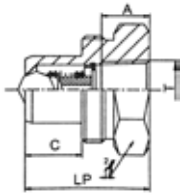
- Heavy duty heat treated poppet: valves are standard with rugged, specially-designed seals made of nitrite for leak-free performance in the toughest application.
- High-strength steel valve guides designed for high flow rates and made extra tough for agricultural service.
- Dependable hardened chrome alloy steel locking balls. Heat treated plugs and sleeves.
- Standard seals temp range -40°F to +250°F

THREAD LOCK HYDRAULIC JACK COUPLING

APPLICATIONS

- Thread lock couplings with their threaded union locking system and precision ball-type check valves are designed for extreme high pressure applications such as portable hydraulic jacks.
- **Ball Type.**





SPECIFICATIONS

Body Size	1/4(14)	3/8(38)
Rated Pressure	10.000	
Rated Flow (GPM)	3	6
Temperature Range	-20°C +120°C	
Standard seal material is **NBR**		

MALE COUPLER

PART #	LS	D	HEX	A	NPT	
KZEB14SM	2.40	1.14	0.87	0.55	1/4	----
KZEB38SM	2.91		0.98	0.57	3/8	----

FEMALE COUPLER

PART #	LS	D	HEX	A	NPT	
KZEB14PF	1.30	0.44	0.75	0.51	1/4	----
KZEB38PF	1.38	0.63	1.26	0.55	3/8	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

MM-FC SERIES FLOW CONTROL VALVES

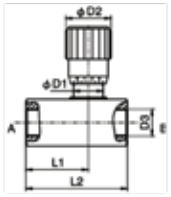
FEATURES:
- Micrometer adjustment knob for accurate valve setting.
- Rugged construction.

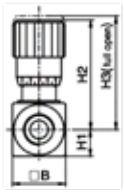
TECHNICAL DATA:
- Materials

Body:	Carbon steel w/ black oxide plating
Handle:	Zinc Alloy
Set Screw:	Steel
Packing:	Buna O-Ring/ PTFE stem packing
Maximum Pressure:	5000PSI
Temperature Ratings:	-4°F to 176°F (-20°C to 80°C)
Flow Rate: 0-42 GPM	

INLET

<< FREE FLOW





Part#	B	D1	D2	D3	H1	H2	H3	L1	L2	WEIGHT (lbs)	
MMFC4NPT	1.10	0.76	1.18	1/4 NPT	0.55	2.41	2.67	1.54	2.52	0.90	----
MMFC6NPT	1.10	0.76	1.18	3/8 NPT	0.55	2.41	2.67	1.69	2.75	0.90	----
MMFC8NPT	1.50	0.95	1.46	1/2 NPT	0.75	3.07	3.41	2.05	3.27	2.00	----
MMFC12NPT	1.50	0.95	1.46	3/4 NPT	0.75	3.08	3.41	2.19	3.50	2.00	----
MMFC16NPT	1.89	1.38	1.89	1 NPT	0.94	4.03	4.50	2.79	4.60	4.20	----
MMFC20NPT	2.38	1.96	2.28	1-1/4 NPT	1.18	5.25	5.88	3.39	6.07	9.55	----

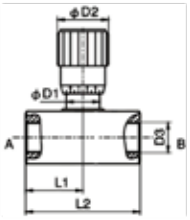
MM-NV SERIES NEEDLE VALVES

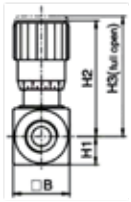
FEATURES:
- Micrometer adjustment knob for accurate valve setting.
- Rugged construction.

TECHNICAL DATA:
- Materials

Body:	Carbon steel w/ black oxide plating
Handle:	Zinc Alloy
Set Screw:	Steel
Packing:	Buna O-Ring/ PTFE stem packing
Maximum Pressure:	5000PSI
Temperature Ratings:	-4°F to 176°F (-20°C to 80°C)
Flow Rate: 0-42 GPM	

▪ FULL SHUT-OFF





Part#	B	D1	D2	D3	H1	H2	H3	L1	L2	WEIGHT (lbs)	
MMNV4NPT	1.10	0.76	1.18	1/4 NPT	0.55	2.41	2.67	1.07	2.13	0.90	----
MMNV6NPT	1.10	0.76	1.18	3/8 NPT	0.55	2.41	2.67	1.07	2.13	0.90	----
MMNV8NPT	1.50	0.95	1.46	1/2 NPT	0.75	3.07	3.41	1.34	2.38	2.00	----
MMNV12NPT	1.50	0.95	1.46	3/4 NPT	0.75	3.08	3.41	1.54	3.09	2.00	----
MMNV16NPT	1.89	1.38	1.89	1 NPT	0.94	4.03	4.50	1.81	3.62	4.20	----

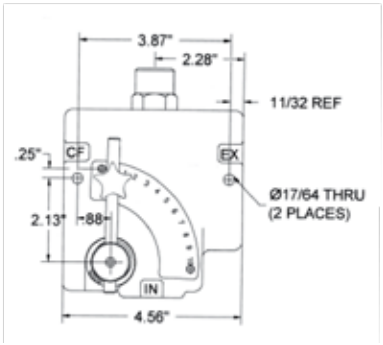
WARNING: This product can expose you to chemicals, including cobalt, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

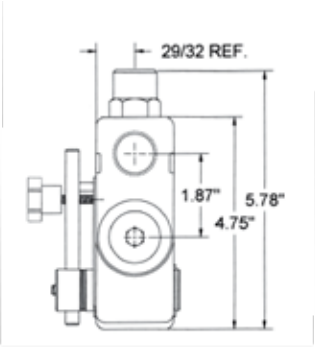
PRESSURE COMPENSATING VARIABLE FLOW CONTROL

FEATURES:

MFC-51 model is a full range pressure compensating variable flow control. It is designed so that the orifice area varies as the lever is rotated. The outlet flw is smooth and constant regardless of the pressure on the control flow or excess flow ports. An adjustable ball spring relief allows for pressure compensated flow up to the pressure setting on the relief. Relief valves are preset at 1500 PSI and field adjustable from 750 to 3000 PSI.

- Materials: Cast Iron Body, Heat Treated Compensator Spool, Stainless Steel Rotary Spool, Buna N "O" Rings (Standard)
- **ALL ARE STANDARD FLOW CONTROL**
- **ALL HAVE ADJUSTABLE BALL SPRING RELIEF**
- **SAE PORT AVAILABLE. MINIMUM ORDER REQUIRED**





Part#	Size	Flow	
MFC38N	3/8" - NPT	0-8 gpm	----
MFC12N	1/2" - NPT	0-16 gpm	----
MFC34N	3/4" - NPT	0-30 gpm	----

SCREW-ON TYPE AIR BREATHERS

• Chrome Plated Steel • 1/4 To 1 Inch NPT • 40 Micron Breather

PART NUMBER	FLOW CFM	NPT	
MB4004	10	1/4	----
MB4006	10	3/8	----
MB4008	10	1/2	----
MB4012	25	3/4	----
MB4016	25	1	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FLANGE ADAPTERS
HYDRAULIC ADAPTERS

STEEL FLANGE ADAPTERS

CONFORMANCE

- SAE J518

MATERIALS

- Steel per SAE J518 with either black phosphate finish or plated zinc finish or iridite dip. Stainless Steel available upon request.

WORKING PRESSURES

The following table lists the recommended working pressures for steel Four-bolt Solid and Split Flange Fititngs and Hose Ends manufactured in accordance with SAE standards J518 and J517. SAE recommends sufficient testing to be conducted to assure that performance levels will be safe and satisfactory, especially if installed in systems operating at elevated pressures or in severe conditions. When using Flanged Fittings that have a threaded connection on one end, use the lower pressure rating of the two.

Caution: Although many Four-bolt Flanged Fittings have sufficient structural integrity to support the weight of many components, we recommend consulting with our technical support department for guidance in selection of parts for this purpose.

SAE J518 FOUR-BOLT CODE 61
FLANGE PRESSURE RATINGS

Dash Size	Flange Head OD Inches	4 TO 1 Minimum Burst PSI
-8	1-3/16 - 1.188	5000
-12	1-1/2 - 1.500	5000
-16	1-3/4 - 1.750	5000
-20	2 - 2.000	4000
-24	2-3/8 - 2.375	3000
-32	2-13/16 - 2.812	3000
-40	3-5/16 - 3.312	2500
-48	4 - 4.000	2000
-56	4-1/2 - 4.500	500
-64	5 - 5.000	500
-80	6 - 6.000	500

SAE J518 FOUR-BOLT CODE 62
FLANGE PRESSURE RATINGS

Dash Size	Flange Head OD Inches	4 TO 1 Minimum Burst PSI
-8	1-1/4 - 1.250	6000
-12	1-5/8 - 1.625	6000
-16	1-7/8 - 1.875	6000
-20	2-1/8 - 2.125	6000
-24	2-1/2 - 2.500	6000
-32	3-1/8 - 3.125	6000

STEEL FLANGE ADAPTERS
ASSEMBLY INSTRUCTIONS

RECOMMENDED SOLID FOUR-BOLT

Step 1. Inspect port area to be smooth and free of nicks, burrs, scratches, or contaminants.
Step2. Lubricate the o-ring and place in flange head groove.
Step 3. Lubricate screw threads, slip lock washers onto screws, and insert screws into flange
Step 4. Position flange on port and finger tighten all screws.
Step 5. Torque the screws in a figure eight sequence, incrementally until the appropriate torque value in the following table is achieved.

J518 CODE 61 AND CODE 62
FLANGE MINIMUM TORQUE VALUES

Dash Size	Port Size	Code 61 Foot/Lbs.	Code 62 Foot/Lbs.
-8	1/2”	15-19	15-19
-12	3/4”	20-29	25-33
-16	1”	27-35	41-50
-20	1-1/4”	35-46	62-75
-24	1-1/2”	46-58	116-133
-32	2”	53-67	200-217
-40	2-1/2”	79	NA
-48	3”	137	NA
-56	3-1/2”	116	NA
-64	4”	116	NA
-80	5”	116	NA

RECOMMENDED SPLIT FOUR-BOLT

Step1. Follow steps 1 through 3 above, then proceed to the following steps.
Step 2. Position both flanges on port and turn one screw in each flange about three turns.
Step 3. Rotate each flange away from the port for sufficient clearance to position hose or fitting flange head on port.
Step 4. Close each flange until it properly captures flange head. Insert remaining screws and finger tighten.
Step 5. Torque the screws in a figure eight sequence incrementally until the appropriate torque value in the preceeding table is achieved.

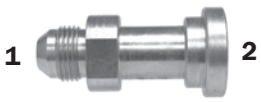
WHY WET TORQUE?

Due to the difference in plating types and thickness, materials, and thread quality of different components, the coefficient of friction varies greatly on any given assembly. Lubrication not only produces a more consistent coefficient of friction, it increases clamping force on sealing area with less torque on the threads. Overtightening causes threads to yield, deform and lose their ability to maintain an adequate load or clamping force on the seating area. Extended operation and severe conditions cause further yielding which results in leaks. Overtightening is the single greatest cause for leaks in metal to metal seat hydraulic connections. It is our firm position, that to not wet torque, is to compromise consistency and quality for convenience.

FLANGE ADAPTERS
HYDRAULIC ADAPTERS

JIC FLANGE ADAPTER CODE 61

6840
503



3000 PSI

PART #	JIC THREAD SIZE 1	FLANGE SIZE 2	
170088	3/4-16	1/2	----
1700812	3/4-16	3/4	----
17001212	1-1/16-12	3/4	----
17001216	1-1/16-12	1	----
17001616	1-5/16-12	1	----
17001620	1-5/16-12	1-1/4	----
17001624	1-5/16-12	1-1/2	----
17002016	1-5/8-12	1	----
17002020	1-5/8-12	1-1/4	----
17002032	1-5/8-12	2	----
17002424	1-7/8-12	1-1/2	----
17003232	2-1/2-12	2	----
17002024	1-5/8-12	1-1/2	----
17002420	1-7/8-12	1-1/4	----
17001612	1-5/16-12	3/4	----
17002432	1-7/8-12	2	----

JIC FLANGE 450 ADAPTER CODE 61

6845
505

3000 PSI

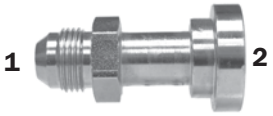
Part #	JIC Thread Size 1	Flange Size 2	
170388	3/4-16	1/2	----
1703812	3/4-16	3/4	----
17031212	1-1/16-12	3/4	----
17031216	1-1/16-12	1	----
17031616	1-5/16-12	1	----
17031620	1-5/16-12	1-1/4	----
17032016	1-5/8-12	1	----
17032020	1-5/8-12	1-1/4	----
17032024	1-5/8-12	1-1/2	----
17033232	2-1/2-12	2	----
17032420	1-7/8-12	1-1/4	----
17032424	1-7/8-12	1-1/2	----
17032432	1-7/8-12	2	----
17031612	1-5/16-12	3/4	----

JIC FLANGE 90° ADAPTER CODE 61

3000 PSI

Part #	JIC Thread Size 1	Flange Size 2	
170488	3/4-16	1/2	----
1704812	3/4-16	3/4	----
17041016	7/8-14	1	----
17041212	1-1/16-12	3/4	----
17041216	1-1/16-12	1	----
17041220	1-1/16-12	1-1/4	----
17041612	1-5/16-12	3/4	----
17041616	1-5/16-12	1	----
17041620	1-5/16-12	1-1/4	----
17041624	1-5/16-12	1-1/2	----
17042016	1-5/8-12	1	----
17042020	1-5/8-12	1-1/4	----
17042024	1-5/8-12	1-1/2	----
17042420	1-7/8-12	1-1/4	----
17042432	1-7/8-12	2	----
17043232	2-1/2-12	2	----
17042032	1-5/8-12	2	----
17042424	1-7/8-12	1-1/2	----

JIC FLANGE ADAPTER CODE 62



6000 PSI

Part #	JIC Thread Size 1	Flange Size 2	
180088	3/4-16	1/2	----
18001212	1-1/16-12	3/4	----
18001216	1-1/16-12	1	----
18001616	1-5/16-12	1	----
18001620	1-5/16-12	1-1/4	----
18002016	1-5/8-12	1	----
18002020	1-5/8-12	1-1/4	----
18002024	1-5/8-12	1-1/2	----
18002424	1-7/8-12	1-1/2	----
18003232	2-1/2-12	2	----
18001612	1-5/16-12	3/4	----
18001624	1-5/16-12	1-1/2	----
18002420	1-7/8-12	1-1/4	----

FLANGE ADAPTERS
HYDRAULIC ADAPTERS

JIC FLANGE 45° ADAPTER CODE 62

6000 PSI

PART #	JIC THREAD SIZE 1	FLANGE SIZE 2	
18031212	1-1/16-12	3/4	----
18031216	1-1/16-12	1	----
18031616	1-5/16-12	1	----
18031620	1-5/16-12	1-1/4	----
18032016	1-5/8-12	1	----
18032020	1-5/8-12	1-1/4	----
18032024	1-5/8-12	1-1/2	----
18032424	1-7/8-12	1-1/2	----
18033232	2-1/2-12	2	----
18031612	1-5/16-12	3/4	----
18031624	1-5/16-12	1-1/2	----
18032420	1-7/8-12	1-1/4	----

6847 508

JIC FLANGE 90° ADAPTER - CODE 62

6000 PSI

PART #	JIC THREAD SIZE 1	FLANGE SIZE 2	
18041212	1-1/16-12	3/4	----
18041216	1-1/16-12	1	----
18041616	1-5/16-12	1	----
18041620	1-5/16-12	1-1/4	----
18042016	1-5/8-12	1	----
18042020	1-5/8-12	1-1/4	----
18042024	1-5/8-12	1-1/2	----
18042424	1-7/8-12	1-1/2	----
18043232	2-1/2-12	2	----
18041612	1-5/16-12	3/4	----
18041624	1-5/16-12	1-1/2	----
18042420	1-7/8-12	1-1/4	----

6842

SPLIT FLANGE PLUG - CODE 61

3000 PSI

PART #	FLANGE SIZE	
196112	3/4	----
196116	1	----
196120	1-1/4	----
196124	1-1/2	----
196132	2	----

6861P

SPLIT FLANGE PLUG CODE 62

6862P

6000 PSI

PART #	FLANGE SIZE	
196212	3/4	----
196216	1	----
196220	1-1/4	----
196224	1-1/2	----
196232	2	----

6862P

SPLIT FLANGE KIT CODE 61

SFK

3000 PSI

PART #	FLANGE SIZE	FLANGE HEAD DIA.	
190112	3/4	1.50	----
190116	1	1.75	----
190120	1-1/4	2.00	----
190124	1-1/2	2.38	----
190132	2	2.81	----

SPLIT FLANGE KIT CODE 62

SFXK

6000 PSI

PART #	FLANGE SIZE	FLANGE HEAD DIAMETER	
190212	3/4	1.63	----
190216	1	1.88	----
190220	1-1/4	2.12	----
190224	1-1/2	2.50	----
190232	2	3.12	----

FLANGE ADAPTERS
HYDRAULIC ADAPTERS

SPLIT FLANGE HALF
CODE 61

SF

3000 PSI

PART #	FLANGE SIZE	FLANGE HEAD DIAMETER	
206112	3/4	1.50	----
206116	1	1.75	----
206120	1-1/4	2.00	----
206124	1-1/2	2.38	----
206132	2	2.81	----

SPLIT FLANGE HALF
CODE 62

SFX

6000 PSI

PART #	FLANGE SIZE	FLANGE HEAD DIAMETER	
206212	3/4	1.63	----
206216	1	1.88	----
206220	1-1/4	2.12	----
206224	1-1/2	2.50	----
206232	2	3.12	----

PIPE THREAD FLANGE PAD
CODE 61

W43

3000 PSI

PART #	PIPE SIZE	
226188	1/2	----
22611212	3/4	----
22611616	1	----
22612020	1-1/4	----
22612424	1-1/2	----
22613232	2	----

PIPE THREAD FLANGE PAD
CODE 62

W44

6000 PSI

PART #	PIPE SIZE	
22621212	3/4	----
22621616	1	----
22622020	1-1/4	----
22622424	1-1/2	----
22623232	2	----

O-RING FLANGE PAD
CODE 61

W46

3000 PSI

PART #	O-RING THREAD SIZE	PAD SIZE	
23611212	1-1/16-12	3/4	----
23611616	1-5/16-12	1	----
23612020	1-5/8-12	1-1/4	----
23612424	1-7/8-12	1-1/2	----

O-RING FLANGE PAD
CODE 62

W48

6000 PSI

PART #	O-RING THREAD SIZE	PAD SIZE	
23621212	1-1/16-12	3/4	----
23621616	1-5/16-12	1	----
23622020	1-5/8-12	1-1/4	----
23622424	1-7/8-12	1-1/2	----

STAINLESS STEEL ADAPTERS

PIPE SWIVELS

JIC FITTINGS

BULKHEAD FITTINGS

PIPE FITTINGS

SAE O-RING BOSS

JIC FEMALE SWIVELS

HOSE CRIMP FITTINGS

ALL MALE THREADS SHIPPED WITH PROTCTIVE COVER

PRESSURE RATINGS

The hydraulic tube fittings represented by Stainless Adapters Inc. conform to the performance requirements specified in SAE J514, SAE J518, SAE J1453, SAE J1926/ISO 11926 and related standards.
The working pressure ratings listed below are based on a 4:1 design factor for minimum burst. As specified in SAE J514, these are dynamic pressure ratings and the fittings are capable of passing a cyclic endurance (impulse) test for one million cycles at 133 % of the corresponding working pressure.
The rated working pressure for any fitting is based on the lowest pressure rated fitting end. For example, a fitting may include one -4 (1/4") male 37-degree tube end and one -6 (3/8") male pipe end. From the tables below, the rated working pressure for the -4 male 37-degree tube end is 34.5 MPa (5,000 psi) and the rated working pressure of the -6 (3/8") male pipe end is 21 MPa (3,000 psi). The rated working pressure of the fining would be 21 MPa (3,000 psi).
For proper performance, the design of any hydraulic system should take into consideration the rated working pressures for each of the components of the system, including standard ratings for hose and tubing components and assemblies. For any application, testing should be performed to assure safe and satisfactory performance.

Pressure Ratings for Fittings With NPTF Pipe Threads and Adapter Unions							
Nominal Pipe Size		Thread Size		Working Pressures			
Nom SAE Dash Size	Nom Inch Pipe O.D.	Dryseal Pipe Thread (NPTF[1]) Male and Female	Straight Pipe Thread (NPSM[2]) Female Swivels	Fittings With NPTF Pipe Threads		Adapter Unions	
				MPa	psi	MPa	psi
-2	1/8	1/8-27	1/8-27	34.5	5,000	34.5	5,000
-4	1/4	1/4-18	1/4-18	27.5	4,000	34.5	5,000
-6	3/8	3/8-18	3/8-18	21	3,000	27.6	4,000
-8	1/2	1/2-14	1/2-14	21	3,000	24.1	3,500
-12	3/4	3/4-14	3/4-14	17	2,500	15.5	2,250
-16	1	1-11-1/2	1-11-1/2	14	2,000	13.8	2,000
-20	1 1/4	1-1/4-11-1/2	1-1/4-11-1/2	8	1,150	11.2	1,625
-24	1 1/2	1-1/2-11-1/2	1-1/2-11-1/2	7	1,000	8.6	1,250
-32	2	2-11-1/2	2-11-1/2	7	1,000	7.8	1,125

1) Dryseal American Standard Taper Pipe Thread
2) American Standard Straight Pipe Thread for Mechanical Joints

■ Temperature Rating

Material	Identify	Max. Temperature °F(°C)
316 Stainless Steel	SS	1000(537)
Brass	B	400(204)
Carbon Steel	C	375(190)

Pressure Ratings

37° Flare SAE J514

Allowable Working Pressure Ratings (Capable of 4 to 1 Min. Burst)

Nom.SAE Dash Size	Nom.Tube O.D Inches	37°Flare Straight Thread	Nom.Pipe Size	SAE St. Threads Union and Bulkhead (psi)	Fittings with Pipe Threads (psi)
2	1/8	5/16" - 24	1/8"	5000	5000
3	3/16	3/8" - 24	1/8"	5000	5000
4	1/4	7/16" - 20	1/8"	5000	5000
5	5/16	1/2" - 20	1/8"	5000	5000
6	3/8	9/16" - 18	1/4"	5000	5000
8	1/2	3/4" - 16	3/8"	4500	4000
10	5/8	7/8" - 14	1/2"	3500	3000
12	3/4	1 1/16" - 12	3/4"	3500	3000
14	7/8	1 3/16" - 12	3/4"	3000	2500
16	1	1 5/16" - 12	1"	3000	2000
20	1 1/4	1 5/8" - 12	1 1/4"	2500	1150
24	1 1/2	1 7/8" - 12	1 1/2"	2000	1000
32	2	2 1/2" - 12	2"	1500	1000

JIC threads conform to SAE J514 specifications

NPT

Size Designator	NPT Size	316 Stainless Steel			
		Male		Female	
		psig	bar	psig	bar
1	1/16	11000	757	6700	461
2	1/8	10000	689	6500	447
4	1/4	8000	551	6600	454
6	3/8	7800	537	5300	365
8	1/2	7700	530	4900	337
12	3/4	7300	502	4600	316
16	1	5300	365	4400	303
20	1 1/4	6000	413	5000	344
24	1 1/2	5000	344	4600	316
32	2	3900	268	3900	268

NPT threads meet the requirements of ASME/ANSIB.1.20.1

FEMALE PIPE SWIVELS

#316 STAINLESS STEEL ADAPTERS

MALE NPT X FEMALE NPSM SWIVEL

PART #	(A) MNPT SIZE	(B) FNPT SIZE	(A) MNPT THREAD	(B) FNPT THREAD	(L)	
SS1404-04-04	1/4	1/4	1/4-18	1/4-18	1.440	----
SS1404-06-06	3/8	3/8	3/8-18	3/8-18	1.560	----
SS1404-08-08	1/2	1/2	1/2-14	1/2-14	1.940	----
SS1404-12-12	3/4	3/4	3/4-14	3/4-14	2.060	----
SS1404-16-16	1	1	1-11 1/2	1-11 1/2	2.380	----

SAI: 1404-X-X / SSP: PSX-XC / PARKER: 0107-X-X-SS / AEROQUIP: 259-2045-X-X

316 STAINLESS STEEL FEMALE NPT X FEMALE NPSM SWIVEL

PART	(A) FNPT SIZE	(B) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	(L)	
SS1405-04-04	1/4	1/4	1/4-18	1/4-18	1.440	----
SS1405-06-06	3/8	3/8	3/8-18	3/8-18	1.560	----
SS1405-08-08	1/2	1/2	1/2-14	1/2-14	1.830	----
SS1405-12-12	3/4	3/4	3/4-14	3/4-14	1.960	----
SS1405-16-16	1	1	1-11 1/2	1-11 1/2	2.300	----

SAI: 1405-X-X / SSP: PSX-XFC / PARKER: 0207-X-X-SS / AEROQUIP: 259-2046-X-X

Control Your Temper

There once was a little boy who had a very bad temper. His father decided to hand him a bag of nails and said that every time the boy lost his temper, he had to hammer a nail into the fence.

On the first day, the boy hammered 37 nails into that fence.

The boy gradually began to control his temper over the next few weeks, and the number of nails he was hammering into the fence slowly decreased.

He discovered it was easier to control his temper than to hammer those nails into the fence.

Finally, the day came when the boy didn't lose his temper at all. He told his father the news and the father suggested that the boy should now pull out a nail every day he kept his temper under control.

The days passed and the young boy was finally able to tell his father that all the nails were gone. The father took his son by the hand and led him to the fence.

"you have done well, my son, but look at the holes in the fence. The fence will never be the same. When you say things in anger, they leave a scar just like this one. You can put a knife in a man and draw it out. It won't matter how many times you say I'm sorry, the wound is still there."

Moral of the story:
Control your anger, and don't say things to people in the heat of the moment, that you may later regret. Some things in life, you are unable to take back.

- Unknown

JIC 37°
#316 STAINLESS STEEL ADAPTERS

JIC TUBE SLEEVE

PART	(A) SIZE	(L)	
SS319-04	1/4	.409	----
SS319-06	3/8	.500	----
SS319-08	1/2	.559	----
SS319-10	5/8	.661	----
SS319-12	3/4	.681	----
SS319-16	1	.779	----

SAI: 319-X / SSP: JXS / PARKER: XTX-SS / AEROQUIP: 259-900605-X

JIC TUBE NUT

PART	(A) FJIC SIZE	(A) THREAD	HEX	(L)	
SS318-04	1/4	7/16-20	9/16	.622	----
SS318-06	3/8	9/16-18	11/16	.728	----
SS318-08	1/2	3/4-16	7/8	.850	----
SS318-10	5/8	7/8-14	1	.980	----
SS318-12	3/4	1-1/16-12	1-1/4	1.031	----
SS318-16	1	1-5/16-12	1-1/2	1.129	----

SAI: 318-X / SSP: JXN / PARKER: XBTX-SS / AEROQUIP: 259-1290-X

JIC CAP

PART	(A) FJIC SIZE	(A) THREAD	HEX	(L) LENGTH	
SS304-C-04	1/4	7/16-20	9/16	.594	----
SS304-C-06	3/8	9/16-18	11/16	.625	----
SS304-C-08	1/2	3/4-16	7/8	.748	----
SS304-C-10	5/8	7/8-14	1	.842	----
SS304-C-12	3/4	1-1/16-12	1-1/4	.905	----
SS304-C-16	1	1-5/16-12	1-1/2	1.015	----

SAI: 304-C-X / SSP: AJXZ / PARKER: X FNTX-SS / AEROQUIP: 259-210292-X

STRAIGHTS JIC FLARE 37°

#316 STAINLESS STEEL ADAPTERS

JIC UNION

PART	(A) MJIC SIZE	(B) MJIC SIZE	(A) MJIC THREAD	(B) MJIC THREAD	(L)	
SS2403-04-04	1/4	1/4	7/16-20	7/16-20	1.370	----
SS2403-06-04	3/8	1/4	9/16-18	7/16-20	1.401	----
SS2403-06-06	3/8	3/8	9/16-18	9/16-18	1.409	----
SS2403-08-04	1/2	1/4	3/4-16	7/16-20	1.511	----
SS2403-08-06	1/2	3/8	3/4-16	9/16-18	1.519	----
SS2403-08-08	1/2	1/2	3/4-16	3/4-16	1.618	----
SS2403-10-08	5/8	1/2	7/8-14	3/4-16	1.779	----
SS2403-10-10	5/8	5/8	7/8-14	7/8-14	1.881	----
SS2403-12-04	3/4	1/4	1-1/16-12	7/16-20	1.850	----
SS2403-12-06	3/4	3/8	1-1/16-12	9/16-18	1.850	----
SS2403-12-08	3/4	1/2	1-1/16-12	3/4-16	1.948	----
SS2403-12-12	3/4	3/4	1-1/16-12	1-1/16-12	2.161	----
SS2403-16-12	1	3/4	1-5/16-12	1-1/16-12	2.318	----
SS2403-16-16	1	1	1-5/16-12	1-5/16-12	2.251	----

SAI: 2403-X-X / SSP: JX-XU / PARKER: HTX-SS / AEROQUIP: 259-2027-X-X

JIC X MALE NPT ADAPTER

PART	(A) MJIC SIZE	(B) MNPT SIZE	(A) MJIC THREAD	(B) MNPT THREAD	(L)	
SS2404-04-02	1/4	1/8	7/16-20	1/8-27	1.220	----
SS2404-04-04	1/4	1/4	7/16-20	1/4-18	1.421	----
SS2404-04-06	1/4	3/8	7/16-20	3/8-18	1.421	----
SS2404-04-08	1/4	1/2	7/16-20	1/2-14	1.681	----
SS2404-06-04	3/8	1/4	9/16-18	1/4-18	1.429	----
SS2404-06-06	3/8	3/8	9/16-18	3/8-18	1.440	----
SS2404-06-08	3/8	1/2	9/16-18	1/2-14	1.688	----
SS2404-08-04	1/2	1/4	3/4-16	1/4-18	1.519	----
SS2404-08-06	1/2	3/8	3/4-16	3/8-18	1.531	----
SS2404-08-08	1/2	1/2	3/4-16	1/2-14	1.712	----
SS2404-08-12	1/2	3/4	3/4-16	3/4-14	1.850	----
SS2404-08-16	1/2	1	3/4-16	1-11 1/2	2.050	----
SS2404-10-08	5/8	1/2	7/8-14	1/2-14	1.889	----
SS2404-12-08	3/4	1/2	1-1/16-12	1/2-14	2.059	----
SS2404-12-12	3/4	3/4	1-1/16-12	3/4-14	2.059	----
SS2404-12-16	3/4	1	1-1/16-12	1-11 1/2	2.250	----
SS2404-16-08	1	1/2	1-5/16-12	1/2-14	2.100	----
SS2404-16-12	1	3/4	1-5/16-12	3/4-14	2.110	----
SS2404-16-16	1	1	1-5/16-12	1-11 1/2	2.299	----

STRAIGHTS JIC FLARE 37°

#316 STAINLESS STEEL ADAPTERS

MALE JIC X FEMALE NPT ADAPTER

PART	(A) MJIC SIZE	(B) FNPT SIZE	(A) MJIC THREAD	(B) FNPT THREAD	(L)	
SS2405-04-04	1/4	1/4	7/16-20	1/4-18	1.389	----
SS2405-06-04	3/8	1/4	9/16-18	1/4-18	1.409	----
SS2405-06-06	3/8	3/8	9/16-18	3/8-18	1.470	----
SS2405-08-08	1/2	1/2	3/4-16	1/2-14	1.790	----
SS2405-12-12	3/4	3/4	1-1/16-12	3/4-14	2.059	----
SS2405-16-16	1	1	1-5/16-12	1-11 1/2	2.350	----

SAI: 2405-X-X / SSP: JX-XFC / PARKER: XXGTX-SS / AEROQUIP: 259-2022-X-X

FEMALE JIC X MALE JIC (REDUCER-EXPANDER)

PART	(A) FJIC SIZE	(B) MJIC SIZE	(A) FJIC THREAD	(B) MJIC THREAD	(L)	
SS2406-06-04	3/8	1/4	9/16-18	7/16-20	1.118	----
SS2406-08-04	1/2	1/4	3/4-16	7/16-20	1.448	----
SS2406-08-06	1/2	3/8	3/4-16	9/16-18	1.311	----
SS2406-10-08	5/8	1/2	7/8-14	3/4-16	1.409	----
SS2406-12-04	3/4	1/4	1-1/16-12	7/16-20	1.500	----
SS2406-12-06	3/4	3/8	1-1/16-12	9/16-18	1.480	----
SS2406-12-08	3/4	1/2	1-1/16-12	3/4-16	1.559	----
SS2406-16-04	1	1/4	1-5/16-12	7/16-20	1.570	----
SS2406-16-06	1	3/8	1-5/16-12	9/16-18	1.578	----
SS2406-16-08	1	1/2	1-5/16-12	3/4-16	1.669	----
SS2406-16-12	1	3/4	1-5/16-12	1-1/16-12	1.877	----

SAI: 2406-X-X / SSP: PSX-XFC / PARKER: 0207-X-X-SS / AEROQUIP: 259-2046-X-X

JIC PLUG

PART	(A) MJIC SIZE	(A) MJIC THREAD	HEX	(L)	
SS2408-04	1/4	7/16-20	1/2	.799	----
SS2408-06	3/8	9/16-18	5/8	.838	----
SS2408-08	1/2	3/4-16	13/16	.940	----
SS2408-10	5/8	7/8-14	15/16	1.098	----
SS2408-12	3/4	1-1/16-12	1-1/8	1.279	----
SS2408-16	1	1-5/16-12	1-3/8	1.330	----

SAI: 2408-X / SSP: JXP / PARKER: XRNTX-SS / AEROQUIP: 259-900599-X

BULKHEAD FITTINGS
#316 STAINLESS STEEL ADAPTERS

JIC BULKHEAD NUT

PART	(A) BN SIZE	(A) THREAD	HEX	(L)	
SS306-04	1/4	7/16-20	11/16	.279	----
SS306-06	3/8	9/16-18	13/16	.271	----
SS306-08	1/2	3/4-16	1	.311	----
SS306-10	5/8	7/8-14	1-1/8	.358	----
SS306-12	3/4	1-1/16-12	1-3/8	.409	----
SS306-16	1	1-5/16-12	1-5/8	.409	----

SAI: 306-X / SSP: XBN / PARKER: XWLN-SS / AEROQUIP: 259-210212-X-X

MALE JIC BULKHEAD TUBE UNION

PART	(A) MJIC SIZE	(B) MJIC SIZE	(A) MJIC THREAD	(B) MJIC THREAD	(L)	
SS2700-04-04	1/4	1/4	7/16-20	7/16-20	2.070	----
SS2700-06-06	3/8	3/8	9/16-18	9/16-18	2.181	----
SS2700-08-08	1/2	1/2	3/4-16	3/4-16	2.440	----
SS2700-12-12	3/4	3/4	1-1/16-12	1-1/16-12	3.090	----
SS2700-16-16	1	1	1-5/16-12	1-5/16-12	3.141	----

SAI: 2700-X-X / SSP: JXBU / PARKER: XWTX-SS / AEROQUIP: 259-2041-X-X

FEMALE NPT X MALE 37 DEGREE JIC BULKHEAD ADAPTER

PART	(A) FNPT SIZE	(B) MJIC SIZE	(A) FNPT THREAD	(B) MJIC THREAD	(L)	
SS2705-04-04	1/4	1/4	1/4-18	7/16-20	2.078	----
SS2705-06-06	3/8	3/8	3/8-18	9/16-18	2.220	----
SS2705-08-08	1/2	1/2	1/2-14	3/4-16	2.610	----
SS2705-12-12	3/4	3/4	3/4-14	1-1/16-12	2.992	----
SS2705-16-16	1	1	1-11 1/2	1-5/16-12	3.228	----

SAI: 2705-X-X / SSP: JX-XBFC / PARKER: X-XWGTX-SS / AEROQUIP: 259-2239-X-X

FEMALE NPT X FEMALE NPT BULKHEAD COUPLING

PART	(A) FNPT SIZE	(B) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	(L)	
SS2707-04-04	1/4	1/4	1/4-18	1/4-18	1.500	----
SS2707-06-06	3/8	3/8	3/8-18	3/8-18	1.311	----
SS2707-08-08	1/2	1/2	1/2-14	1/2-14	1.500	----

SAI: 2707-X-X / SSP: AXAC

PIPE FITTINGS
#316 STAINLESS STEEL ADAPTERS

HEX PIPE COUPLING

PART	(A) FNPT SIZE	(B) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	(L)	
SS5000-02-02	1/8	1/8	1/8-27	1/8-27	.748	----
SS5000-04-04	1/4	1/4	1/4-18	1/4-18	1.129	----
SS5000-06-04	3/8	1/4	3/8-18	1/4-18	1.129	----
SS5000-06-06	3/8	3/8	3/8-18	3/8-18	1.129	----
SS5000-08-06	1/2	3/8	1/2-14	3/8-18	1.500	----
SS5000-08-08	1/2	1/2	1/2-14	1/2-14	1.500	----
SS5000-12-12	3/4	3/4	3/4-14	3/4-14	1.531	----
SS5000-16-08	1	1/2	1-11 1/2	1/2-14	1.889	----
SS5000-16-12	1	3/4	1-11 1/2	3/4-14	1.889	----
SS5000-16-16	1	1	1-11 1/2	1-11 1/2	1.889	----

SAI: 5000-X-X / SWANGELOK: SS-XHGG-X / SSP: XHC / PARKER: XGG-SS / AEROQUIP: 259-2096-X-X

HEX PIPE NIPPLE

PART	(A) MNPT SIZE	(B) MNPT SIZE	(A) MNPT THREAD	(B) MNPT THREAD	L	
SS5404-02-02	1/8	1/8	1/8-27	1/8-27	1.059	----
SS5404-04-02	1/4	1/8	1/4-18	1/8-27	1.259	----
SS5404-04-04	1/4	1/4	1/4-18	1/4-18	1.448	----
SS5404-06-04	3/8	1/4	3/8-18	1/4-18	1.448	----
SS5404-06-06	3/8	3/8	3/8-18	3/8-18	1.448	----
SS5404-08-04	1/2	1/4	1/2-14	1/4-18	1.700	----
SS5404-08-06	1/2	3/8	1/2-14	3/8-18	1.700	----
SS5404-08-08	1/2	1/2	1/2-14	1/2-14	1.889	----
SS5404-12-04	3/4	1/4	3/4-14	1/4-18	1.771	----
SS5404-12-06	3/4	3/8	3/4-14	3/8-18	1.771	----
SS5404-12-08	3/4	1/2	3/4-14	1/2-14	1.960	----
SS5404-12-12	3/4	3/4	3/4-14	3/4-14	1.960	----
SS5404-16-08	1	1/2	1-11 1/2	1/2-14	2.090	----
SS5404-16-12	1	3/4	1-11 1/2	3/4-14	2.149	----
SS5404-16-16	1	1	1-11 1/2	1-11 1/2	2.338	----

SAI: 5404-X-X / SWANGELOK: SS-X-HN-X / SSP: XHN / PARKER: X-XFF-SS / AEROQUIP: 259-2083-X-X

PIPE NIPPLE

PART	(A) MNPT SIZE	(A) MNPT THREAD	(L)	
SSCN-04	1/4	1/4-18	1.120	----
SSCN-06	3/8	3/8-18	1.125	----
SSCN-08	1/2	1/2-14	1.507	----
SSCN-12	3/4	3/4-14	1.500	----
SSCN-16	1	1-11 1/2	1.880	----

SAI: CN-X / SWANGELOK: SS-X-CN / PARKER: X-X MCN-SS / AEROQUIP: 259-2083-X-X

STEEL PIPE FITTINGS

#316 STAINLESS STEEL ADAPTERS

MALE NPT X FEMALE NPT ADAPTER EXPANDER

PART	(A) MNPT SIZE	(B) FNPT SIZE	(A) MNPT THREAD	(B) FNPT THREAD	(L)	
SS5405-02-02	1/8	1/8	1/8-27	1/8-27	1.039	----
SS5405-02-04	1/8	1/4	1/8-27	1/4-18	1.208	----
SS5405-04-04	1/4	1/4	1/4-18	1/4-18	1.389	----
SS5405-04-06	1/4	3/8	1/4-18	3/8-18	1.440	----
SS5405-04-08	1/4	1/2	1/4-18	1/2-14	1.681	----
SS5405-06-06	3/8	3/8	3/8-18	3/8-18	1.440	----
SS5405-06-08	3/8	1/2	3/8-18	1/2-14	1.681	----
SS5405-06-12	3/8	1/2	3/8-18	3/4-14	1.740	----
SS5405-08-08	1/2	1/2	1/2-14	1/2-14	1.870	----
SS5405-08-12	1/2	3/4	1/2-14	3/4-14	1.929	----
SS5405-08-16	1/2	1	1/2-14	1-11 1/2	2.181	----
SS5405-12-12	3/4	3/4	3/4-14	3/4-14	1.929	----
SS5405-12-16	3/4	1	3/4-14	1-11 1/2	2.181	----
SS5405-16-16	1	1	1-11 1/2	1-11 1/2	2.370	----

SAI: 5405-X-X / SWANGELOK: SS-X-RA-X / SSP: XXXRA / PARKER: X-XFG-SS / AEROQUIP: 259-2040-X-X

MALE NPT X FEMALE NPT BUSHING/ REDUCER

PART	(A) MNPT SIZE	(B) FNPT SIZE	(A) MNPT THREAD	(B) FNPT THREAD	(L)	
SS5406-04-02	1/4	1/8	1/4-18	1/8-27	.850	----
SS5406-06-04	3/8	1/4	3/8-18	1/4-18	.850	----
SS5406-08-04	1/2	1/4	1/2-14	1/4-18	1.098	----
SS5406-08-06	1/2	3/8	1/2-14	3/8-18	1.098	----
SS5406-12-04	3/4	1/4	3/4-14	1/4-18	1.169	----
SS5406-12-06	3/4	3/8	3/4-14	3/8-18	1.169	----
SS5406-12-08	3/4	1/2	3/4-14	1/2-14	1.169	----
SS5406-16-04	1	1/4	1-11 1/2	1/4-18	.940	----
SS5406-16-06	1	3/8	1-11 1/2	3/8-18	.940	----
SS5406-16-08	1	1/2	1-11 1/2	1/2-14	.940	----
SS5406-16-12	1	3/4	1-11 1/2	3/4-14	.940	----
SS5406-20-12	1-1/4	3/4	1-1/4-11 1/2	3/4-14	1.47	----

SAI: 5606-X-X / SWANGELOK: SS-XRB-X / SSP: XXXRA / PARKER: XXXPTR-SS / AEROQUIP: 259-2081-X-X

HEX PIPE PLUG

PART	(A) MNPT SIZE	(A) MNPT THREAD	HEX SIZE	(L)	(L)	
SS5406-P-04	1/4	1/4-18	9/16	.751	.850	----
SS5406-P-06	3/8	3/8-18	11/16	.779	.850	----
SS5406-P-08	1/2	1/2-14	7/8	1.118	1.098	----
SS5406-P-12	3/4	3/4-14	1-1/8	1.169	1.098	----
SS5406-P-16	1	1-11 1/2	1-3/8	1.397	1.169	----

SAI: 5606-P-X / SWANGELOK: SS-X-P / SSP: XXXRA / PARKER: X-HHP-SS / AEROQUIP: 259-2082-X

HOLLOW HEX PLUG

PART	(A) MNPT SIZE	(A) MNPT THREAD	HEX SIZE	(L)	(L)	
SS5406-HHP-04	1/4	1/4-18	1/4	.460	.850	----
SS5406-HHP-06	3/8	3/8-18	5/16	.460	.850	----
SS5406-HHP-08	1/2	1/2-14	3/8	.610	1.098	----
SS5406-HHP-12	3/4	3/4-14	9/16	.618	1.098	----
SS5406-HHP-16	1	1-11 1/2	5/8	.771	1.169	----

SAI: 5406-HHP-X / SWANGELOK: SS-X-HP / SSP: XCP / PARKER: X-HP-SS / AEROQUIP: 259-2222-X

STEEL PIPE FITTINGS

#316 STAINLESS STEEL ADAPTERS

HEX PIPE CAP

PART	(A) FNPT SIZE	(A) FNPT THREAD	HEX	(L)	
SS5406-C-04	1/4	1/4-18	3/4	.811	----
SS5406-C-06	3/8	3/8-18	7/8	.811	----
SS5406-C-08	1/2	1/2-14	1	1.000	----
SS5406-C-12	3/4	3/4-14	1-5/16	1.129	----
SS5406-C-16	1	1-11 1/2	1-5/8	1.500	----

SAI: 5406-C / SWANGELOK: SS-X-C / SSP: XMM / PARKER: XCR-SS / AEROQUIP: 259-2085-X-X

MALE X MALE 90 DEGREE PIPE ELBOW

PART	(A) MNPT SIZE	(B) MNPT SIZE	(A) MNPT THREAD	(B) MNPT THREAD	(L)	
SS5500-02-02	1/8	1/8	1/8-27	1/8-27	.748	----
SS5500-04-04	1/4	1/4	1/4-18	1/4-18	1.129	----
SS5500-06-06	3/8	3/8	3/8-18	3/8-18	1.129	----
SS5500-08-08	1/2	1/2	1/2-14	1/2-14	1.129	----
SS5500-12-12	3/4	3/4	3/4-14	3/4-14	1.500	----
SS5500-16-16	1	1	1-11 1/2	1-11 1/2	1.500	----

SAI: 5500-X-X / SWANGELOK: SS-X-ME / SSP: XMM / PARKER: XCR-SS / AEROQUIP: 259-2085-X-X

MALE X FEMALE STREET ELBOW

PART	(A) MNPT SIZE	(B) FNPT SIZE	(A) MNPT THREAD	(B) FNPT THREAD	
SS5502-02-02	1/8	1/8	1/8-27	1/8-27	----
SS5502-04-04	1/4	1/4	1/4-18	1/4-18	----
SS5502-06-06	3/8	3/8	3/8-18	3/8-18	----
SS5502-08-08	1/2	1/2	1/2-14	1/2-14	----
SS5502-12-12	3/4	3/4	3/4-14	3/4-14	----
SS5502-16-16	1	1	1-11 1/2	1-11 1/2	----

SAI: 5500-X-X / SWANGELOK: SS-X-ME / SSP: XMM / PARKER: XCR-SS / AEROQUIP: 259-2085-X-X

STEEL PIPE FITTINGS
#316 STAINLESS STEEL ADAPTERS

FEMALE X FEMALE 90 DEGREE ELBOW

PART	(A) FNPT SIZE	(B) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	
SS5504-02-02	1/8	1/8	1/8-27	1/8-27	----
SS5504-04-04	1/4	1/4	1/4-18	1/4-18	----
SS5504-06-06	3/8	3/8	3/8-18	3/8-18	----
SS5504-08-08	1/2	1/2	1/2-14	1/2-14	----
SS5504-12-12	3/4	3/4	3/4-14	3/4-14	----
SS5504-16-16	1	1	1-11 1/2	1-11 1/2	----

SAI: 5504-X-X / SWANGELOK: SS-X-E / SSP: XFF / PARKER: XDD-SS / AEROQUIP: 259-2087-X-X

MALE ELBOWS PIPE TEE

PART	(A) MNPT SIZE	(B) MNPT SIZE	(C) MNPT SIZE	(A) MNPT THREAD	(B) MNPT THREAD	(C) MNPT THREAD	
SS5600-04-04-04	1/4	1/4	1/4	1/4-18	1/4-18	1/4-18	----
SS5600-06-06-06	3/8	3/8	3/8	3/8-18	3/8-18	3/8-18	----
SS5600-08-08-08	1/2	1/2	1/2	1/2-14	1/2-14	1/2-14	----
SS5600-12-12-12	3/4	3/4	3/4	3/4-14	3/4-14	3/4-14	----
SS5600-16-16-16	1	1	1	1-11 1/2	1-11 1/2	1-11 1/2	----

SAI: 5600-X-X-X / SWANGELOK: SS-X-MT / SSP: XMMM / PARKER: XRRS-SS / AEROQUIP: 259-2257-X-X

TEE – FEMALE X FEMALE X FEMALE

PART	(A) FNPT SIZE	(B) FNPT SIZE	(C) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	(C) FNPT THREAD	
SS5605-02-02-02	1/8	1/8	1/8	1/8-27	1/8-27	1/8-27	----
SS5605-04-04-04	1/4	1/4	1/4	1/4-18	1/4-18	1/4-18	----
SS5605-06-06-06	3/8	3/8	3/8	3/8-18	3/8-18	3/8-18	----
SS5605-08-08-08	1/2	1/2	1/2	1/2-14	1/2-14	1/2-14	----
SS5605-12-12-12	3/4	3/4	3/4	3/4-14	3/4-14	3/4-14	----
SS5605-16-16-16	1	1	1	1-11 1/2	1-11 1/2	1-11 1/2	----

SAI: 5605-X-X-X / SWANGELOK: SS-X-T / SSP: XFF / PARKER: XMMO-SS / AEROQUIP: 259-2090-X-X

SAE O-RING BOSS (ORB)

#316 STAINLESS STEEL ADAPTERS

MALE JIC X MALE SAE O-RING BOSS

PART	(A) MJIC SIZE	(B) MORB SIZE	(A) MJIC THREAD	(B) MORB THREAD	(L)	
SS6400-04-04	1/4	1/4	7/16-20	7/16-20	1.228	----
SS6400-04-06	1/4	3/8	7/16-20	9/16-18	1.291	----
SS6400-06-06	3/8	3/8	9/16-18	9/16-18	1.299	----
SS6400-06-08	3/8	1/2	9/16-18	3/4-16	1.377	----
SS6400-06-10	3/8	5/8	9/16-18	7/8-14	1.500	----
SS6400-08-06	1/2	3/8	3/4-16	9/16-18	1.440	----
SS6400-08-08	1/2	1/2	3/4-16	3/4-16	1.488	----
SS6400-08-10	1/2	5/8	3/4-16	7/8-14	1.598	----
SS6400-08-12	1/2	3/4	3/4-16	1-1/16-12	1.759	----
SS6400-12-08	3/4	1/2	1-1/16-12	3/4-16	1.940	----
SS6400-12-12	3/4	3/4	1-1/16-12	1-1/16-12	1.968	----
SS6400-12-16	3/4	1	1-1/16-12	1-5/16-12	1.988	----
SS6400-16-12	1	3/4	1-5/16-12	1-1/16-12	2.039	----
SS6400-16-16	1	1	1-5/16-12	1-5/16-12	2.039	----

SAI: 6400-X-X-X / SWANGELOK: SS-X-SAE-1-XAN / SSP: JXGC / PARKER: XF50X-SS / AEROQUIP: 259-202702-X-X

MALE SAE O-RING BOSS X FEMALE JIC SWIVEL

PART	(A) MORB SIZE	(B) FJIC SIZE	(A) MORB THREAD	(B) FJIC THREAD	(L)	
SS6402-04-04	1/4	1/4	7/16-20	7/16-20	1.625	----
SS6402-06-06	3/8	3/8	9/16-18	9/16-18	1.842	----
SS6402-08-08	1/2	1/2	3/4-16	3/4-16	2.078	----
SS6402-12-12	3/4	3/4	1-1/16-12	1-1/16-12	2.582	----
SS6402-16-16	1	1	1-5/16-12	1-5/16-12	2.807	----

SAI: 6402-X-X-X / SSP: JSX6C / PARKER: XF650X-SS / AEROQUIP: 259-2266-X-X

MALE SAE O-RING BOSS X FEMALE NPT

PART	(A) MORB SIZE	(B) FNPT SIZE	(A) MORB THREAD	(B) FNPT SIZE	(L)	
SS6405-04-04	1/4	1/4	7/16-20	1/4-18	1.161	----
SS6405-06-04	3/8	1/4	9/16-18	1/4-18	1.090	----
SS6405-06-06	3/8	3/8	9/16-18	3/8-18	1.330	----
SS6405-08-08	1/2	1/2	3/4-16	1/2-14	1.468	----
SS6405-12-08	3/4	1/2	1-1/16-12	1/2-14	1.409	----
SS6405-12-12	3/4	3/4	1-1/16-12	3/4-14	1.590	----
SS6405-16-16	1	1	1-5/16-12	1-11 1/2	1.897	----

SAI: 6405-X-X / SWANGELOK: SS-X-SAE-7-X / SSP: XXXGCF / PARKER: XXX-F50G-SS / AEROQUIP: 259-2216-X-X

SAE O-RING BOSS (ORB)
#316 STAINLESS STEEL ADAPTERS

SAE O-RING BOSS HEX PLUG

PART	(A) MORB SIZE	(A) MORB THREAD	HEX	(L)	
SS6408-04	1/4	7/16-20	9/16	.669	----
SS6408-06	3/8	9/16-18	11/16	.728	----
SS6408-08	1/2	3/4-16	7/8	.779	----
SS6408-10	5/8	7/8-14	1"	.929	----
SS6408-12	3/4	1-1/16-12	1-1/4	1.090	----
SS6408-16	1	1-5/16-12	1-1/2	1.118	----

SAI: 6408-HH-X / SWANGELOK: SS-X-HPST / SSP: XCGP / PARKER: XHP50N-SS / AEROQUIP: 259-FF2138-X

MALE SAE O-RING BOSS HOLLOW HEX PLUG

PART	(A) MORB SIZE	(A) MORB THREAD	HEX SIZE	(L)	
SS6408-HH-02	1/8	5/16-24	1/8	.401	----
SS6408-HH-04	1/4	7/16-20	3/16	.468	----
SS6408-HH-06	3/8	9/16-18	1/4	.500	----
SS6408-HH-08	1/2	3/4-16	5/16	.578	----
SS6408-HH-10	5/8	7/8-14	3/8	.649	----
SS6408-HH-12	3/4	1-1/16-12	9/16	.767	----
SS6408-HH-16	1	1-5/16-12	5/8	.767	----

SAI: 6408-X / SWANGELOK: SS-X-PST / SSP: XGP / PARKER: XP50N-SS / AEROQUIP: 259-900598-X

FEMALE JIC SWIVELS
#316 STAINLESS STEEL ADAPTERS

316 STAINLESS STEEL MALE NPT X FEMALE 37 DEGREE JIC SWIVEL

PART	(A) MNPT SIZE	(B) FJIC SIZE	(A) MNPT THREAD	(B) FJIC THREAD	(L)	
SS6505-04-04	1/4	1/4	1/4-18	7/16-20	1.807	----
SS6505-06-06	3/8	3/8	3/8-18	9/16-18	1.952	----
SS6505-08-08	1/2	1/2	1/2-14	3/4-16	2.358	----
SS6505-12-12	3/4	3/4	3/4-14	1-1/16-12	2.668	----
SS6505-16-16	1	1	1-11 1/2	1-5/16-12	3.055	----

SAI: 6505-X-X / SWANGELOK: JSX-XC / PARKER: XXXF6X-SS / AEROQUIP: 259-2018-X-X

316 STAINLESS STEEL FEMALE NPT X FEMALE 37 DEGREE JIC SWIVEL

PART	(A) FNPT SIZE	(B) FJIC SIZE	(A) FNPT THREAD	(B) FJIC THREAD	(L)	
SS6506-04-04	1/4	1/4	1/4-18	7/16-20	1.862	----
SS6506-06-06	3/8	3/8	3/8-18	9/16-18	2.011	----
SS6506-08-08	1/2	1/2	1/2-14	3/4-16	2.389	----
SS6506-12-12	3/4	3/4	3/4-14	1-1/16-12	2.673	----
SS6506-16-16	1	1	1-11 1/2	1-5/16-12	3.114	----

SAI: 6506-X-X / SWANGELOK: JSX-XFC / PARKER: X-XG6X-SS / AEROQUIP: 259-2242-X-X

Your attitude is like a box of crayons that color your world. Constantly color your picture gray, and your picture will always be bleak. Try adding some bright colors to the picture by including humor, and your picture begins to lighten up.

- Allen Klein

CRIMP HOSE FITTINGS

#316 STAINLESS STEEL ADAPTERS

STRAIGHT MALE NPT PIPE - RIGID

PART	HOSE DASH SIZE	HOSE I.D. (INCHES)	THREAD DASH SIZE	MNPT THREAD	(L)	
SS43-04-04MP	-04	1/4	-04	1/4-18	1.862	----
SS43-04-06MP	-04	1/4	-06	3/8-18	2.011	----
SS43-06-04MP	-06	3/8	-04	1/4-18	2.389	----
SS43-06-06MP	-06	3/8	-06	3/8-18	2.673	----
SS43-08-08MP	-08	1/2	-08	1/2-14	3.114	----
SS43-10-08MP	-10	5/8	-08	1/2-14	1.590	----
SS43-12-12MP	-12	3/4	-12	3/4-14	1.897	----
SS43-16-16MP	-16	1	-16	1-11-1/2		----

SAI: 4304-XMP / PARKER: 10143-X-XC

STRAIGHT FEMALE JIC - SWIVEL

PART	HOSE DASH SIZE	HOSE I.D. (INCHES)	THREAD DASH SIZE	FJIC THREAD	(L)	
SS43-04-04FJ	-04	1/4	-04	7/16-20	1.862	----
SS43-04-06FJ	-04	1/4	-06	9/16-18	2.011	----
SS43-06-04FJ	-06	3/8	-04	7-16-20	2.389	----
SS43-06-06FJ	-06	3/8	-06	9/16-18	2.673	----
SS43-06-08FJ	-06	3/8	-08	3/4-16	3.114	----
SS43-08-08FJ	-08	1/2	-08	3/4-16	1.590	----
SS43-08-10FJ	-08	1/2	-10	7/8-14	1.897	----

SAI: 4304-XFJ / PARKER: 10643-X-XC

90 DEGREE FEMALE JIC - SWIVEL

PART	HOSE DASH SIZE	HOSE I.D. (INCHES)	THREAD DASH SIZE	FJIC THREAD	
SS43-04-04FJ90	-04	1/4	-04	7/16-20	----
SS43-04-06FJ90	-04	1/4	-06	9/16-18	----
SS43-06-06FJ90	-06	3/8	-06	9/16-18	----
SS43-08-08FJ90	-08	1/2	-08	3/4-16	----
SS43-12-12FJ90	-12	3/4	-12	1-1/16-12	----
SS43-16-16FJ90	-16	1	-16	1-5/16-12	----

SAI: 43-X-XFJ90 / PARKER: 10143-X-XC

STRAIGHT MALE NPT - API

PART	HOSE DASH SIZE	HOSE I.D. (INCHES)	THREAD DASH SIZE	MNPT THREAD	
BW-16-16API-C	-16	1	-16	1-11 1/2	----

PRODUCT SPECIFICATIONS – BW SERIES MALE API BOP CRIMP FITTING

PART	O.D. (INCHES)	I.D. (INCHES)	LENGTH (INCHES)	
BOPF-C	2.360	2.225	5.195	----

PRODUCT SPECIFICATIONS – BW SERIES MALE API BOP CRIMP FERRULE

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